

### UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

exterel

REGION 4
ATLANTA FEDERAL CENTER
61 FORSYTH STREET
ATLANTA, GEORGIA 30303-8960

April 12, 2000

4WD-PSB

SENT VIA FAX AND
CERTIFIED MAIL RETURN RECEIPT REQUESTED

Exide Corporation Attn: Ari D. Levine, Esquire Director, Regulatory Affairs 645 Penn Street Reading, Pennsylvania 19601

10079220



SUBJ:

Agreement for Recovery of Past Response Costs

Westgate Mobile Homes Superfund Site, Greer, South Carolina

EPA ID No. 0000487678

Site ID No. 04WU

Dear Mr. Levine:

The United States Environmental Protection Agency (EPA) hereby notifies you that the thirty-day public comment period required by Section 122(i) of the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA), 42 U.S.C. § 9622(i), regarding the Agreement for Recovery of Past Response Costs (Cost Recovery Agreement) for the Westgate Mobile Homes Superfund Site located in Greer, South Carolina, has expired. EPA did not receive any comments that disclose facts or considerations which indicate that the Cost Recovery Agreement is inappropriate, improper or inadequate. Therefore, EPA has finalized the Cost Recovery Agreement (an executed copy of which is enclosed).

The effective date of the Cost Recovery Agreement is the date of this written notice stating that the public comment period has expired. Under Section V, Paragraph 10 of the Cost Recovery Agreement, dated February 24, 2000, payment of \$250,000 is due from the Settling Parties within thirty (30) days of the effective date of the Cost Recovery Agreement.

Under Section V, Paragraph 11 of the Cost Recovery Agreement, dated February 24, 2000, payment of \$250,000.00 is due from the Exide Corporation. Accordingly, please submit payment of the \$250,000.00 as set forth in the terms of the Cost Recovery Agreement.

Payment shall be made by certified or cashier's check, made payable to "EPA Hazardous Substances Superfund." Each check shall reference the name of the

Settling Party, the Site/Spill ID 04WU and the name of the Site and shall be sent to:

U.S. Environmental Protection Agency - Region 4 Superfund Accounting P.O. Box 100142 Atlanta, Georgia 30384 Attn: Collection Officer in Superfund

A copy of each check shall simultaneously be sent to Ms. Paula V. Batchelor at:

U.S. Environmental Protection Agency - Region 4 **CERCLA Program Services Branch** Waste Management Division 61 Forsyth Street, S.W. Atlanta, Georgia 30303

If you have any questions, please contact Billy D. Bright at (404) 562-8868 or Rueben Bussey, Assistant Regional Counsel, at (404) 562-9673.

Sincerely yours,

Franklin E. Hill, Chief

CERCLA Program Services Branch

Waste Management Division

fauld L. Kig

Enclosure: Cost Recovery Agreement



### UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 4
ATLANTA FEDERAL CENTER
61 FORSYTH STREET
ATLANTA, GEORGIA 30303-8960

March 27, 2000

4WD-NSMB

Mr. Gary W. Poliakoff Poliakoff and Associates, P.A. 215 Magnolia Street P.O. Box 1571 Spartanburg, South Carolina 29304

Subi:

Exide Corporation - Exide Battery, Greer, South Carolina National Enforcement Investigations Center (NEIC) Report

Dear Mr. Poliakoff:

EPA received your letter dated March 7, 2000, concerning the Exide Battery Site in Greer, South Carolina. The following information should help clarify the status of the NEIC report and its role in EPA's actions at this site.

The study conducted by NEIC was undertaken at the request of EPA Region 4's Air and Superfund programs in order to support EPA and/or State enforcement actions if needed, and to support EPA's cost recovery position for the 1994 Removal Action conducted in the trailer park. NEIC notified Region 4 by memorandum in April 1997 that it would undertake the study. Written summary updates were provided by NEIC in May 1998 and January of 1999. Since that time, EPA has reached a settlement with Exide Corporation regarding EPA's past response costs at the site, and the settlement is currently open for public comment. Because the study has fulfilled its intended purpose, once the settlement was reached, we advised NEIC that Region 4 no longer had need for a completed project. NEIC has indicated their desire to complete the project under its own funding. EPA expects to receive a copy of NEIC's final report when it becomes available. NEIC has advised us that they expect to complete their final report within the next three months.

We hope this information is useful to you. If you have any questions on this matter, please call me (404/562-8792) or Ralph Howard of my staff (404/562-8829), at any time.

Mike Norman, Chief

South Carolina Remedial Section

cc:

Reuben Bussey, EPA Ralph Howard, EPA Steve Machemer, NEIC/Denver LAW OFFICES

Poliakoff and Associates, P.A. 215 Magnolia Street Spartanburg, South Carolina 29306

MAILING ADDRESS:

P.O. BOX 1571

SPARTANBURG, SOUTH CAROLINA 29304

TELEPHONE: 1864) 582-5472 (864) 582-8(0) FACSIMILE: 1864) 582-7280

March 7, 2000

· . ... .

BERNARD B. POLIAKOFF

1916-1953

J. MANNING POLIAKOFF

1923-1968

MATTHEW POLIAKOFF

1909-1978

Mr. Mike Norman Section Chief United States Environmental Protection Agency Region IV Adanta Federal Center Atlanta, GA 30303-8909

RE: Exide Corporation - Greer, South Carolina NEIC Report

Dear Mr. Norman:

GARY W. POLIAKOFE

AttyPoliko@aol.com

RAYMOND P. MULLMAN, JR. RMullmanir@aol.com

We represent a number of residents of two communities adjacent to the former Exide facility in Greer, South Carolina. For a number of years Exide Corporation denied responsibility for high levels of lead contamination in Westgate Trailer Park and in King Acres subdivision, both adjacent to its lead acid battery facility. The matter was referred to the NEIC. Approximately 2 years ago the NEIC issued a draft report, indicating that the lead levels in Westgate Trailer Park most probably emanated from the Exide facility. However, during these past two years NEIC has yet to issue a final report. We understand that this is an abnormally long period of time, with extensive unexplained delays, in the issuance of the final report. We have written the NEIC on several occasions asking for the final report. We have been informed that it is forthcoming.

We understand that you are the section chief at Region 4 EPA regarding this matter. We respectfully request that you inquire from the NEIC as to the cause of any delays in the issuance of the final report. We also request that you ask the NEIC to go ahead and issue this report without further delay. Please understand that this matter is far from moot. In fact, Exide is currently negotiating with South Carolina D.H.E.C. for a clean-up level in King Acres significantly higher than EPA and HUD recommended levels.

### Page two March 7, 2000

We appreciate your assistance, and we look forward to hearing from you regarding the delay of this NEIC report.

With best regards I am,

Yours very truly,

GÁRY W. POLIAKOFÉ

Attorney at Law

### GWP/cb

cc: Mr. Scott Wilson, DHEC

Mr. Gary Stewart, DHEC

Mr. Steve Machemer, Project Leader, NEIC

Mr. Chuck Aschwanden, General Counsel NEIC

Mr. Reuben Bussey, US EPA, Region IV

Mr. Warren Dixon, US EPA Region IV

Mr. Ralph Howard, US EPA, Region IV

# Phone Call Notes R.O. Howard, RPM/NSMB with: Reuben Bussey, EAD

June 24, 1999 11:15 AM

- Exide called Tuesday on this ...

-Ari Levine has asked us URGENT to "take over whole thing": trailer park, plant, King's Acres, etc.

- Asked Reuben to ask us (SF) to get the State to consider the BFields considerations . If Arr Levine can get the cleanup number he wants can control environm. costs. Exist wants to sell entire plant.

Will we participate in a 3-way conference call? [State-EPA-Exide] Needs to be

### **FAX TRANSMISSION**

Bureau of Land & Waste Management, Department of Health & Environmental

CONTROL

2600 Bull Street Columbia, SC 29201 (803)896-4252 Fax: (803)896-4292

To:

Raiph Howard

Date:

June 21, 1999

Fax #:

1-404-562-862

Pages: 2

3, including this cover sheet.

From:

Karen J. Sprayberry

Subject:

Exide/Westgate Trailer Park Site

**COMMENTS:** 

FACT SHEET
Exide Corporation/General Battery Site
Greer, South Carolina
June 21, 1999

### **PUBLIC MEETINGS:**

The South Carolina Department of Health and Environmental Control ("SCDHEC") will hold two Public Meetings on Thursday, June 24, 1999 in Greer, South Carolina, to discuss a lead contamination problem at Westgate Trailer Park, Greer, SC. The first meeting will begin at 11:00 a.m. and will be held at CenterQuest located at 102 Chick Springs Road, Greer. (CenterQuest is located in the same building as the Manager's Office for the trailer park.) The evening meeting will begin at 7:00 p.m. and will be held at the J. Verne Smith Human Resources Center, 202 Victoria Street, Greer, SC.

During both Public Meetings, SCDHEC will talk about its most recent findings at the Westgate Trailer Park and plans for removing lead contaminated soils from the park in the near future. Members of the community will also be given an opportunity to ask questions and express any concerns they have about this site.

### SITE LOCATION:

Immediately adjacent to the former Exide Corporation ("Exide") facility site to the east is the Westgate Trailer Park ("Site") located at the corner of Old Buncombe Road and Chick Spring: Road in Greer, South Carolina.

154

#### **SITE HISTORY:**

The 5 acre trailer park was established between 1968 and 1970, and consists of approximately 53 mobile homes. The manufacturing of lead acid batteries on the adjacent property began in the early 1960's by Bowers Battery, which later changed its name to General Battery and Cera nic Corporation, and in 1968, to General Battery Corporation. Exide began operation at the site in May 1987.

An earthen lagoon was constructed at the site in the early 1960's for treatment of was tewater. Groundwater subsequently became contaminated with lead and sulfates. The lagoon was not used after the construction of a pretreatment system was built. In 1986, SCDHEC determined that soil in the drainage area at the rear of the property was contaminated with lead. An agreement signed between SCDHEC and Exide required all areas at the Exide site that had soil contamination he cleaned up. During the clean up, Exide removed approximately 1039 tons of soil. On August 24 1990, Exide notified SCDHEC that soil remediation was complete.

In January 1992, SCDHEC collected three soil samples from the Westgate Trailer Park and found the total lead concentrations to be 270 parts per million (ppm), 560 ppm, and 800 ppm. In June 1994, the United States Environmental Protection Agency's (USEPA's) contractor collected fit ty-five shallow soil samples across the trailer park. Results of these samples found the total lead cor centrations ranged from 42.1 ppm up to 2110 ppm. Six locations had total lead concentrations greater than 500 ppm and were excavated by USEPA. Approximately 1200 tons of contaminated soil was removed from these areas and clean soil was placed into the area.

Since then, SCDHEC has continued to monitor the area by collecting soil and residential blood samples. The most recent set of soil sampling data found that there was still some lead contamination in the trailer park. Some sampling results found levels above 400 ppm. Living in an area where levels are above 400 ppm is considered dangerous to a person's health. Therefore, based on USEPA's

guidance, SCDHEC has elected to remove all the surface soils not addressed in USEPA's 1994 removal. SCDHEC will remove all surface soils, called surficial soils, to a minimal level of 6 inches and may remove additional soils, if necessary.

#### **OTHER INFORMATION:**

For additional information, please call Scott Wilson, Project Manager, at (803) 896-4077; Karen Sprayberry, Program Coordinator, at (803) 896-4252; or Charles Bristow, Appalachia II District Office at (864) 241-1090.

: 13 1



### UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 4
ATLANTA FEDERAL CENTER
61 FORSYTH STREET
ATLANTA, GEORGIA 30303-8960

MAY 2 5 1999



Mr. Harry Mathis
Bureau of Solid and Hazardous Waste
South Carolina Department of Health
& Environmental Control
2600 Bull Street
Columbia, SC 29201

SUBJ: Westgate Mobile Home Park Site; Greer, South Carolina

Dear Mr. Mathis:

In a letter to me from Gary Stewart dated February 8, 1999, South Carolina DHEC referred the Westgate Mobile Home Park Site (the Site) to the EPA Region Emergency Response and Removal Branch (ERRB) as a Superfund removal action candidate. In response to this referral, ERRB conducted a Removal Site Evaluation and determined that the Site warrants a removal action pursuant to the National Contingency Plan because of lead contamination of surface soil in a residential setting. This determination was reported to SCDHEC in a letter from me to you dated May 10, 1999.

In preparation for the removal action, a meeting was held with a PRP for the Site, Exide Corporation, on May 14, 1999. At this meeting, Exide expressed willingness to conduct a removal action at the Site under an Administrative Order on Consent. However, Exide requested that they be allowed time (approximately four weeks) to collect site-specific indoor dust and tap water data. This site-specific data would be used in the Integrated Exposure Uptake Biokinetic (IEUBK) model to generate a site-specific soil removal action level for lead. Because Exide's proposed approach was consistent with EPA guidance on establishing soil lead removal action levels entitled "Revised Interim Soil Lead Guidance for CERCLA Sites and RCRA Corrective Action Facilities" (OSWER Directive 9355.4-12), EPA agreed, pending SCDHEC concurrence, to adopt Exide's proposed approach.

On May 17, 1999, EPA and SCDHEC held a conference call to discuss Exide's proposal. After EPA explained Exide's proposal, SCDHEC informed us of their preference to use default parameters for indoor dust and tap water in the IEUBK model which results in a soil action level of 400 mg/kg lead. Therefore, it is EPA's understanding that SCDHEC is withdrawing the referral and will take the lead role in addressing the soil contamination at the Site. EPA respects your decision and appreciates the opportunity to work with you on the Site. If the situation changes and you require our assistance, please don't hesitate to call.

Sincerely,

Myron D. Lair, Chie

Emergency Response Removal Branch

cc: Ari D. Levine, Exide Corp.
Neal S. Lebo, Exide Corp.
Reuben Bussey, OLS/EAD

Mike Norman, NSMB

5 scenarios - IEUBK

Kevin Koperec

Risk Ofc

done about 5/17/99

3 SCHAMIOS + LVIDIN			
calculated risk-based soil Pb based on Verying dust 8/or			
dr. water Pb			
,	pus T Pb	& dw Pb	then soil Pb
	•	4 (default)	355-7400
2	100	4 (default)	550
3	250	8	300
4	307(msA)	2	400-
5	220 (MSA)	14.	~ 300
. MSA = Mult source Analysis (1.e., model cute dust Pb). . dw Pb - think about Now Many Spls (over 4 quarters?) reeded			

©1993 Franklin Quest Co. Printed in USA.

CO 5002

# Meeting with Exide officials\_5/14/99\_00 AM

- Introductions (and cards)
- Reuben presented updated "Demand" Ltr.
- Mr. Levine went through how we got here...
  1.500 vs. 400 ppm. Exide wasn't trying to do their own risk assessment.
  What was the nature of DHEC'S assessment.

  discussion with EPA on this.
  - 2. Exide is involved (in this way) on 74 sites nationwide.
- Discussion of why modelling hasn't been done before now ...
- (EPA staff only) Discussion of ideas ....

Penalty payment Istill can do

we plan to get back to then

- EPA discussion-



2600 Bull Street Columbia, SC 29201-1708 March 17, 1999

> Mr. Leo Francendese Emergency Response and Removal Branch US EPA, Region IV 61 Forsyth Street Atlanta, Georgia 30303-3104

Subject:

Westgate Trailer Park

Greer, South Carolina

Dear Mr. Francendese:

During a phone conversation which I had today with Ralph Howard of EPA Region IV, he indicated to me that you would be the contact for any future actions undertaken by EPA at the Westgate Trailer Park (Westgate). At his request, I have included a copy of the January 1997 Remedial Investigation for Westgate. It contains the surficial soil sampling data on which the original remedial plan for Westgate was based upon. The only other known surface soil data collected at the site (other than the 1994 EPA removal grid) was compiled by NEIC and reported to EPA Region IV last fall.

Copies of all correspondence between SC DHEC and Exide should be found in the Westgate files of EPA Region IV. However, should require any additional information from the Department, please feel free to contact me at (803) 896-4077. I look forward to hearing from you soon regarding this matter.

Sincerely,

R. Scott Wilson, Project Manager

Division of Site Assessment and Remediation

Bureau of Land and Waste Management

cc:

Addie Somers, BLWM

51290; File

enclosure;

### Greer's Westgate may have to get more lead out

By Jenny Munro 3/19/99 GREER BUREAU

GREER — Four years after authorities hauled away lead-contaminated dirt from Westgate Mobile Home Park, state officials said more needs to be removed, but they are unsure whether the state or federal government will oversee the work.

"The limited work we did in the past may not have resolved the problem," said Don Rigger, section chief with the federal Environmental Protection Agency's removal operations section. The initial cleanup removed dirt from areas with high lead concentrations, but not from the entire mobile-home park.

The park on Chick Springs Road is adjacent to a closed plant where Exide Corp. manufactured automobile batteries

"I feel they ought to have done it right the first time," said Timothy Robinson, who has lived in Westgate for about 10 years. "We haven't heard anything about digging it up again."

He said his son, who will soon turn 7, has elevated levels of lead in his blood. "It's frightening to know your child has been exposed to contamination," he said.

Scott Wilson, site project manager for the state Department of Health and Environmental Control, said the agency "has no indications that an immediate health hazard exists" at the site.

Initial tests of children's blood for lead indicated that 15 had elevated levels, officials said. The latest round of tests, however, showed levels have been dropping, Wilson said.

That indicates that children in the mobile-home park don't appear to be exposed to the high levels of lead contamination, he said.

Medical experts say that young children are particularly vulnerable to lead contamination, which can interfere with brain development and cause learning disabilities.

The EPA's Rigger said a project manager is reviewing available information to see whether the trailer park is a candidate for federal Superfund emergency cleanup. "It's very preliminary," he said.

A decision could be made in

two weeks if enough data is available, Rigger said. Officials could decide that no action is needed; that action should be taken because the site presents an imminent danger; or that additional sampling is needed to determine whether a hazard exists.

If additional soil removal is needed, officials must fighte out how to ensure that they get all the lead, Rigger said. One possibility is having all the topsoil in the park removed.

"Hot spots" of lead contantination with levels of up to 2,110 parts per million spurred the initial cleanup. Contaminated soil was removed to clean the areas to 8 level of 500 parts per million, a level then thought to be sais for residential areas. More recent tests have turned up areas with lead levels of up to 1,600 parts per million, officials said.

New health-hazard information indicates a safe level inresidential areas is 400 parts per million, Wilson said.

Negotiations with Exide to clean up the site have broken down, he said.



2600 Bull Street Columbia, SC 29201-1708

February 8, 1999

COMMISSIONER: Douglas E. Bryant

BOARD: John H. Burriss Chairman

William M. Hull, Jr., MD Vice Chairman

Roger Leaks, Jr. Secretary

Mark B. Kent

Cyndi C. Mosteller

Brian K. Smith

Rodney L. Grandy

Mr. Myron D. Lair, Chief, Emergency Response and Removal Branch US EPA, Region IV 61 Forsyth Street Atlanta, Georgia 30303-3104

RE: ERRB Referral

Westgate Trailer Park/Exide Battery Site Greenville County, South Carolina

Dear Mr. Lair:

The purpose of this letter is to request that EPA Region IV's Emergency Response and Removal Branch consider conducting a soil removal at the Westgate Trailer Park (Westgate) located adjacent to the former Exide Battery facility in Greer, South Carolina. The Department has determined that an additional removal action is warranted based on sampling results conducted since the 1994 removal action that indicate significant contamination remains on the Westgate property. In addition, children residing on this property have previously been documented as having elevated blood lead levels.

The Department has made every reasonable attempt to allow Exide to address Westgate under a 1996 consent agreement, however, Exide has been unwilling to accept the Department's cleanup standard of 400 ppm total lead. EPA risk assessor Kevin Koporec has supported the Department's cleanup goal and recommended that surface soil containing lead concentrations greater than 400 ppm be removed (see attachment). Exide's latest correspondence indicates a desire to further negotiate the cleanup goal. The Department feels that negotiations with Exide have been exhausted and that this removal action could best be accomplished by EPA.

The Department would like to thank you for considering this request. We ask that you respond to our request as soon as possible. In addition, if EPA chooses to take action at the site, it is requested that all activities be closely coordinated with the Department. If you have any questions regarding this matter, please call me at (803) 896-4054, or Scott Wilson, the State Project Manager, at (803) 896-4077.

Sincerely,

R. Gary Stewart, P.E., Manager

Site Engineering Section

Bureau of Land and Waste Management

cc: Keith Lindler

Scott Wilson Jessie King Charles Bristow

Ralph Howard, EPA Region IV

File 051290

Ralph Howard

Re:

**ERRB Referral** 

Date:

February 9, 1999

Pages 5, including this cover sheet.

FACSI

MILE

- Copied to Warren Dixon ...

1. Da Lamonte - Stellings Sahage Call 419/733-2801 x 317

29588

From the desk of ...

Administrative Assistant SC DHEC 8901 Farrow Road Columbia, S.C. 29223

> (803) 896-4051 Fax: (803) 896-4292

2600 Bull Street Columbia, SC 29201-1708

February 8, 1999

COMMISSIONER: Douglas E. Bryant

BOARD: John H. Burrice Chairman

William M. Hull, Jr., MD Vice Chairman

Roger Leaks, Jr. Secretary

Mark B. Kent

Cyndi C. Mosteller

Brian K. Smith

Rodney L. Grandy

Mr. Myron D. Lair, Chief, Emergency Response and Removal Branch US EPA, Region IV 61 Forsyth Street Atlanta, Georgia 30303-3104

RE: ERRB Referral

Westgate Trailer Park/Exide Battery Site Greenville County, South Carolina

Dear Mr. Lair:

The purpose of this letter is to request that EPA Region IV's Emergency Response and Removal Branch consider conducting a soil removal at the Westgate Trailer Park (Westgate) located adjacent to the former Exide Battery facility in Greer, South Carolina. The Department has determined that an additional removal action is warranted based on sampling results conducted since the 1994 removal action that indicate significant contamination remains on the Westgate property. In addition, children residing on this property have previously been documented as having elevated blood lead levels.

The Department has made every reasonable attempt to allow Exide to address Westgate under a 1996 consent agreement, however, Exide has been unwilling to accept the Department's cleanup standard of 400 ppm total lead. EPA risk assessor Kevin Koporec has supported the Department's cleanup goal and recommended that surface soil containing lead concentrations greater than 400 ppm be removed (see attachment). Exide's latest correspondence indicates a desire to further negotiate the cleanup goal. The Department feels that negotiations with Exide have been exhausted and that this removal action could best be accomplished by EPA.

The Department would like to thank you for considering this request. We ask that you respond to our request as soon as possible. In addition, if EPA chooses to take action at the site, it is requested that all activities be closely coordinated with the Department. If you have any questions regarding this matter, please call me at (803) 896-4054, or Scott Wilson, the State Project Manager, at (803) 896-4077.

Sincerely.

R. Gary Stewart, P.E., Manager

Site Engineering Section

Bureau of Land and Waste Management

cc: Keith Lindler

Scott Wilson Jessic King Charles Bristow

Ralph Howard, EPA Region IV

File 051290



### **REGION 4**

61 Forsyth Street, S.W. Atlanta, Georgia 30303

December 1, 1998.

4WD-OTS

### MEMORANDUM

SUBJECT:

Exide Corp. Facility/Westgate Trailer Park

Greer, South Carolina

FROM:

Kevin Koporec, Toxicologist KPK
Office of Technical Services

TO:

Raiph Howard

South Carolina Section

North Site Management Branch

Re:

Oct-30-98 letter from Exide Corp. to Reuben Bussey, EPA

Aug-31-98 letter from SCDHEC to Exide Corp. Jul-27-98 letter from AGS Corp. to SCDHEC

Per your recent request I have evaluated the recent Exide/SCDHEC/EPA correspondence listed above in regard to the assessment of risk from lead in soil at the Exide Corp./Westgate Trailer Park Site.

In the most recent correspondence (Oct-30), Exide has attempted to apply the recently proposed TSCA Section 403 rule (FR Jun-3-98) to the Westgate site. Due to the reasons outlined below, the soil hazard level given in the proposed TSCA rule should not be used as a remedial level at OSWER (CERCLA & RCRA) sites.

The specifics for the TSCA 403 standard are proposed and not final at this time. Thus the final TSCA 403 rule could be significantly different after consideration of public comment and analysis. Additionally, when the TSCA proposed rule becomes final (date not determined), it would likely not apply, i.e., not become an ARAR, for CERCLA site remedial action due to the different purposes of the Title X/TSCA and CERCLA programs. Some of the major differences in the proposed TSCA rule and CERCLA relative to soil lead are stated below.

The Title X/TSCA 403 proposed rule recommends interim control/exposure reduction measures for soil lead levels in the range of 400 to 2000 mg/kg, but it is voluntarily up to the homeowner to implement these recommended measures. In contrast, at CERCLA Sites,

site-specific information is used to adjust soil lead levels upwards from 400 mg/kg to support the OSWER soil lead directive (EPA Revised Interim Soil Lead Guidance for CERCLA Sites and RCRA Corrective Action Facilities, OSWER Directive # 9355.4-12, Jul-14-1994). Given that EPA's responsibility is to provide for a determination that the remediation of CERCLA sites will be permanently protective and that there can be no guarantees that interim controls will be maintained to protect health, the OSWER soil lead directive and related materials (such as the EPA IEUBK Model) must be used to evaluate CERCLA Sites.

As noted above, 400 ppm is the screening level for lead in soil at CERCLA sites. This is based on the EPA Integrated Exposure Uptake and Biokinetic (IEUBK) model run with model defaults for all exposure parameters other than soil and dust lead concentrations. The final remediation soil lead level for a hazardous waste site should be determined by running the IEUBK with site-specific inputs, where available, for the various input parameters. SCDHEC has followed EPA in using 400 ppm as a remedial level for lead in soil at current or future residential sites lacking site-specific data for other input parameters. If no site data are available or if the available site data do not differ significantly from the default values, the final soil lead remedial level will be 400 ppm.

The only site concentration data made available to me for the Exide/Westgate site (other than soil data) are for air lead levels (AGS Jul-27-98 letter to S.Wilson, SCDHEC). The average of the data points is  $0.052~\mu g/cu.m.$  lead in air. This air lead concentration does not alter the soil lead level (400 ppm) necessary to meet the EPA goal of no greater than 5% probability of exceeding the health based blood lead level of  $10~\mu g/dL$ . No site dust concentration data (mass per mass units) are presented in the report; therefore, the dust lead concentration is determined by the IEUBK model which assumes dust to come from air and outdoor soil. With a soil lead concentration of 370 ppm and an air lead concentration of 0.052  $\mu g/cu.m.$ , the resultant dust lead concentration predicted by the model is 264 ppm.

Additionally, AGS, in their Jul-27-98 letter to SCDHEC, proposes a soil lead cleanup level of 520 ppm. This value is derived by altering, without proper site data, the default value in the EPA IEUBK model for the dust-lead-to-soil-lead ratio. The default value for this parameter is 0.7; AGS derives a ratio of 0.25 based on a qualitative comparison with the HUD clearance levels for household dust. The information presented is not valid to change the default ratio of 0.7 for this parameter. Site data for dust lead concentrations (mass/mass units) are needed to calculate a site-specific dust-lead-to-soil-lead ratio. From the information presented there is no basis to alter the default ratio of 0.7; therefore, the soil lead concentration needed to protect human health is 400 ppm lead in soil.

Based on the above discussion and the knowledge that children in this community have been documented as having elevated blood lead levels, I recommend that surface soil containing elevated lead concentrations (greater than 400 ppm) be removed, or that other measures be taken to assuredly eliminate the exposure pathway.

If further questions arise, I can be reached at 2-8644.

cc: Reuben Bussey, BAD
Billy Bright, Cost Recovery Section
Elmer Akin, OTS

ENVIRONMENTAL PROTECTION AGENCY
OFFICE OF CRIMINAL ENFORCEMENT, FORENSICS, AND TRAINING
NATIONAL ENFORCEMENT INVESTIGATIONS CENTER
BUILDING 53, BOX 25227, DENVER FEDERAL CENTER
DENVER, COLORADO 80225

### Aktorney Work Product/Enforcement Confidential/FIOA Exempt

January 28, 1999

not a Waster document NEIC & EAD

### **MEMORANDUM**

SUBJECT: Executive Summary of Initial Lead and Antimony Results

Westgate Trailer Park

Greer, South Carolina

Project No. VP0300 (R\$5)

FROM:

Diana A. Love, Esq.

Director, NEIC

TO:

Reuben Bussey C

Assistant Regional Council CERCLA and Legal Support

Attached is an executive summary for the subject case. If there are any questions, please contact Dr. Steve Machemer at (303) 236-6093.

### Attachment

cc: Billy Bright, Enforcement Project Manager, Region 4

Floyd Ledbetter, Region 4

Bruce Miller, Associate Director for Technical Support, Region 4

Sherri Fields, Enforcement Coordinator, Region 4

Phillis Harris, Director Environmental Accountability Division, Region 4

G. Lubieniecki, Civil Program Coordinator

K.E. Nottingham, Chief, Laboratory Branch

S. Machemer, Project Leader, Laboratory Branch

### Attorney Work Product/Enforcement Confidential/FIOA Exempt

## UNITED STATES ENVIRONMENTAL PROTECTION AGENCY Office of Enforcement and Compliance Assurance Office of Criminal Enforcement, Forensics and Training

### **EXECUTIVE SUMMARY**

Executive Summary of Initial Lead and Antimony Results
Westgate Trailer Park
Greer, South Carolina
Project No. VP0300 (R55)

January 28, 1999

Steve Machemer, Ph.D. Project Leader

NATIONAL ENFORCEMENT INVESTIGATIONS CENTER
Diana A. Love, Director
Denver, Colorado

### Attorney Work Product/Enforcement Confidential/FIOA Exempt

Executive Summary of Initial Lead and Antimony Results for the Westgate Trailer Park Greer, South Carolina Project No. VP0300 (R55)

### Introduction

In cooperation with the United States Environmental Protection Agency (EPA) Region 4 and the South Carolina Department of Health and Environmental Control (DHEC), EPA's National Enforcement Investigations Center (NEIC) collected eighty soil cores from the Westgate Trailer Park in Greer, South Carolina. An additional twelve soil cores and eighteen samples of dust and process materials were collected from the battery manufacturing facility immediately west of the trailer park. Analysis of these samples is currently being conducted by NEIC to determine the source of lead contamination found in the soil of the Westgate Trailer Park. This report provides a brief summary of the initial results of the lead and antimony analyses of the soil cores from the trailer park and soil cores and samples of dust and process materials from the battery manufacturing facility.

### Sample Analysis

Soil cores and samples of dust and process materials were analyzed for total lead concentration as well as other total metal concentrations including antimony. Lead was analyzed by inductively coupled plasma-mass spectrometry (ICP-MS) on nitric acid or hydrochloric acid digestions as the primary analytical technique. For confirmation, lead was also analyzed by inductively coupled plasma-atomic emission spectroscopy (ICP-AES) on potassium hydroxide fusions. Antimony was analyzed by inductively coupled

Attorney Work Product/Enforcement Confidential/FIOA Exempt plasma-mass spectrometry (ICP-MS) on hydrochloric acid digestions.

Antimony results were confirmed by inductively coupled plasma-atomic emission spectroscopy (ICP-AES) on hydride generation of hydrochloric acid digestions.

### Results and Conclusions

The correlation coefficient (r²) of lead and antimony in eighty samples of soil from the Westgate Trailer Park was approximately 0.88. This correlation coefficient indicates a strong relationship between lead and antimony in the trailer park soil. The relationship shows that lead-antimony alloy material is a primary source of the lead in the soil at the trailer park. In addition, ratios of lead to antimony in the trailer park soil are consistent with ratios of lead to antimony in samples from the battery manufacturing facility. Battery manufacturing typically uses lead-antimony alloys in their manufacturing process. Furthermore, the relationship of lead and antimony in these results are not consistent with other probable sources of lead in the trailer park, such as lead from automobile exhaust.

### Work in Progress

Currently underway at NEIC are several additional sets of analyses which are likely to provide additional information pertaining to the source of lead in the soil at the Westgate Trailer Park.

Heren O Machemir 1-23-99



### UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 4
ATLANTA FEDERAL CENTER
61 FORSYTH STREET
ATLANTA, GEORGIA 30303-8960

JAN 1 3 1999

Mr. Ari D. Levine Assistant General Counsel Exide Corporation 645 Penn Street Reading, PA 19601

SUBJ: Westgate Trailer Park Site

Greer, South Carolina

Dear Mr. Levine:

I have discussed the issues raised in your letter of October 30, 1998 with representatives of the Region 4 Superfund remedial program, and offer the following response to your concerns:

The proposed Toxic Substances Control Act (TSCA) Section 403 regulations (63 Fed. Reg. 30,302 et seg.) do not require soillead cleanup at any hazard level. The essential purposes of the regulations are: (1) to identify a soil-lead level of concern of 400 ppm and a hazard level of 2000 ppm, and to see that the risk levels, found to exist on any particular property, are effectively communicated to the public; and (2) to implement key provisions of the Residential Lead-Based Paint Hazard Reduction Act of 1992, none of which remotely approaches cleanup action.

The Overview of the proposed regulations candidly states that the regulations would not require private property owners to undertake hazard control actions when hazards are identified. Concern for children's health, liability exposure and other market forces are expected to provide incentive for property owners to take action voluntarily.

CERCLA takes a more aggressive approach toward environmental contamination, including soil-lead contamination. Section 104 of CERCLA provides for the investigation, removal and remediation of such contamination.

The enclosed memorandum from Kevin Koporec of the Region 4 Office of Technical Services explains how EPA arrives at site-specific soil-lead cleanup standards at Superfund sites, for which EPA is charged with responsibility for cleanup.

Upon consideration and comparison of the basic objectives of the Superfund program with the stated purposes of the proposed TSCA Section 403 regulations, it does not appear that the latter reasonably apply to the determination of a cleanup standard for the Westgate Trailer Park Site. It seems reasonable to conclude that risk levels, established for cleanup under CERCLA, are the more appropriate standard for contaminant remediation than are risk and hazard standards, triggering notice to the public as to the existence of such risks. EPA clearly does not have the intention, in the proposed TSCA Section 403 regulations, of setting soil-lead cleanup standards for Superfund sites.

The enclosed Region 4 Office of Technical Services memorandum essentially so states.

I must leave to the State of South Carolina any discussion as to whether or not it has misinterpreted or misapplied the proposed regulations.

EPA has designated Westgate a "low priority site," largely because the State of South Carolina is the lead agency and Exide has indicated a willingness to cleanup the contamination. If Exide elects not to proceed with cleanup as required by the State, EPA will reconsider its plans for response action at the Site.

If you wish to discuss this matter in person, I will be glad to arrange a meeting, in Atlanta, of all appropriate EPA representatives.

Reuben T. Bussey

Enclosure

The state of

cc: Kevin Koporec Ralph Howard



2600 Bull Street Columbia, SC 29201-1708

COMMISSIONER: Douglas E. Bryant

**CERTIFIED MAIL** 

BOARD: John H. Burriss Chairman

William M. Hull, Jr., MD Vice Chairman

Roger Leaks, Jr. Secretary

Richard E. Jabbour, DDS

Cyndi C. Mosteller

Brian K. Smith

Rodney L. Grandy

December 18, 1998

Mr. Neil S. Lebo Exide Corporation P.O. Box 14205 Reading, PA 19612-4205

RE: In

Implementation of Soil Remediation Plan

Westgate Trailer Park

Greenville County, South Carolina

Dear Mr. Lebo:

The South Carolina Department of Health and Environmental Control (Department) was recently copied on a December 1, 1998 memorandum from Kevin Koporec of EPA Region 4 regarding the remediation of lead contaminated soils at the Westgate Trailer Park (Westgate) located in Greer, South Carolina. The content of that memorandum concurred with previous Departmental recommendations on using 400 ppm as the clean-up level for Westgate. The Department feels that all reasonable arguments by Exide regarding the clean-up level have been exhausted at this point. We are therefore requesting that Exide submit to the Department a plan and schedule for implementation of soil remediation at Westgate within twenty (20) business days of the receipt of this letter. The corresponding implementation of the remedial plan should be scheduled no later than thirty (30) days of the approval of the submitted plan.

Although Exide submitted an original remediation plan for Westgate on July 16, 1997, the Department believes a revised plan is warranted. Specifically, there is concern that the areas of delineation found in Figure 3 of the original plan are not complete. With the exception of the northeast portion of the trailer park where the EPA removal was conducted, the Department believes that a surficial removal of all soils could be warranted. The variations in lead concentrations over short distances make it difficult to distinguish areas of concentration under 400 ppm with any certainty. With this in mind, the plan for excavation and confirmatory sampling would also need to be revised from the original remediation plan submittal. Finally, the implementation schedule would require revision due to the updated time frames for the remedial action at Westgate.

### UNITED STATES ENVIRONMENTAL PROTECTION AGENCY



#### **REGION 4**

### 61 Forsyth Street, S.W. Atlanta, Georgia 30303

December 1, 1998

4WD-OTS

### **MEMORANDUM**

SUBJECT:

Exide Corp. Facility/Westgate Trailer Park

Greer, South Carolina

FROM:

Kevin Koporec, Toxicologist KPK
Office of Technical Services

TO:

Ralph Howard

South Carolina Section

North Site Management Branch

Re:

Oct-30-98 letter from Exide Corp. to Reuben Bussey, EPA

Aug-31-98 letter from SCDHEC to Exide Corp. Jul-27-98 letter from AGS Corp. to SCDHEC

Per your recent request I have evaluated the recent Exide/SCDHEC/EPA correspondence listed above in regard to the assessment of risk from lead in soil at the Exide Corp./Westgate Trailer Park Site.

In the most recent correspondence (Oct-30), Exide has attempted to apply the recently proposed TSCA Section 403 rule (FR Jun-3-98) to the Westgate site. Due to the reasons outlined below, the soil hazard level given in the proposed TSCA rule should not be used as a remedial level at OSWER (CERCLA & RCRA) sites.

The specifics for the TSCA 403 standard are proposed and not final at this time. Thus the final TSCA 403 rule could be significantly different after consideration of public comment and analysis. Additionally, when the TSCA proposed rule becomes final (date not determined), it would likely not apply, i.e., not become an ARAR, for CERCLA site remedial action due to the different purposes of the Title X/TSCA and CERCLA programs. Some of the major differences in the proposed TSCA rule and CERCLA relative to soil lead are stated below.

The Title X/TSCA 403 proposed rule recommends interim control/exposure reduction measures for soil lead levels in the range of 400 to 2000 mg/kg, but it is voluntarily up to the homeowner to implement these recommended measures. In contrast, at CERCLA Sites,

site-specific information is used to adjust soil lead levels upwards from 400 mg/kg to support the OSWER soil lead directive (EPA Revised Interim Soil Lead Guidance for CERCLA Sites and RCRA Corrective Action Facilities, OSWER Directive # 9355.4-12, Jul-14-1994). Given that EPA's responsibility is to provide for a determination that the remediation of CERCLA sites will be permanently protective and that there can be no guarantees that interim controls will be maintained to protect health, the OSWER soil lead directive and related materials (such as the EPA IEUBK Model) must be used to evaluate CERCLA Sites.

As noted above, 400 ppm is the screening level for lead in soil at CERCLA sites. This is based on the EPA Integrated Exposure Uptake and Biokinetic (IEUBK) model run with model defaults for all exposure parameters other than soil and dust lead concentrations. The final remediation soil lead level for a hazardous waste site should be determined by running the IEUBK with site- specific inputs, where available, for the various input parameters. SCDHEC has followed EPA in using 400 ppm as a remedial level for lead in soil at current or future residential sites lacking site-specific data for other input parameters. If no site data are available or if the available site data do not differ significantly from the default values, the final soil lead remedial level will be 400 ppm.

The only site concentration data made available to me for the Exide/Westgate site (other than soil data) are for air lead levels (AGS Jul-27-98 letter to S.Wilson, SCDHEC). The average of the data points is  $0.052~\mu g/cu.m.$  lead in air. This air lead concentration does not alter the soil lead level (400 ppm) necessary to meet the EPA goal of no greater than 5% probability of exceeding the health based blood lead level of  $10~\mu g/dL$ . No site dust concentration data (mass per mass units) are presented in the report; therefore, the dust lead concentration is determined by the IEUBK model which assumes dust to come from air and outdoor soil. With a soil lead concentration of 370 ppm and an air lead concentration of  $0.052~\mu g/cu.m.$ , the resultant dust lead concentration predicted by the model is 264 ppm.

Additionally, AGS, in their Jul-27-98 letter to SCDHEC, proposes a soil lead cleanup level of 520 ppm. This value is derived by altering, without proper site data, the default value in the EPA IEUBK model for the dust-lead-to-soil-lead ratio. The default value for this parameter is 0.7; AGS derives a ratio of 0.25 based on a qualitative comparison with the HUD clearance levels for household dust. The information presented is not valid to change the default ratio of 0.7 for this parameter. Site data for dust lead concentrations (mass/mass units) are needed to calculate a site-specific dust-lead-to-soil-lead ratio. From the information presented there is no basis to alter the default ratio of 0.7; therefore, the soil lead concentration needed to protect human health is 400 ppm lead in soil.

Based on the above discussion and the knowledge that children in this community have been documented as having elevated blood lead levels, I recommend that surface soil containing elevated lead concentrations (greater than 400 ppm) be removed, or that other measures be taken to assuredly eliminate the exposure pathway.

If further questions arise, I can be reached at 2-8644.

cc: Reuben Bussey, EAD
Billy Bright, Cost Recovery Section
Elmer Akin, OTS

Author: Ralph Howard at REGION4 Date: 11/5/1998 10:05 AM

Priority: Normal TO: Reuben Bussey

CC: Cynthia Peurifoy, Elmer Akin, Kevin Koporec, Ralph Howard, Floyd Ledbetter, Michael Norman Subject: Re: EXIDE BATTERY / WESTGATE TRAILER PARK



EXIDE BATTERY / WESTGATE TRAILER HOMES GREER, GREENVILLE CO. SC

Reuben, I've not read the Fed Register quote yet... The Site's been NFRAPed; however, since NEIC/Denver is doing an Air Transport Study (and is almost done by the way) Cost Recovery considers their SOL open, as I understand it from Ray Strickland. The site was NFRAPed by us after a 1995 Removal Action by EERB, of surface soils; the State negotiated for some time and then signed an Order with Exide in early 1996 (approx). An RI/FS-type thing was done beginning in mid-1996 on through mid-1997. The order did require remediation. Data on hand as of 11/96 showed that despite the Removal, there were still areas of high Pb (Pb = lead) still present in surface soils. A plan for remediation was generated in July 1997.

As to why they're blaming us for the Pb level, that's ridiculous. SCDHEC is electing NOT to accept a higher cleanup number, preferring the 400 ppm level as we do, and is basing their decision on our Risk Office's policy. An additional factor is that Dr. Bob Marino of DHEC's Health Hazard group has overseen blood-lead sampling for long periods of time here; AND, there have been \*ACTUAL\* significantlyelevated blood-levels here, not just potential but ACTUAL. 400 ppm generates an immediate removal as far as we're concerned, for surface soils in a residential area (this is a trailer park).

Exide simply doesn't want to do it to 400, they want 500. They want to use modelling to show 500 is OK (this, in spite of the documented elevated blood-Pb levels seen in the past). I'll defer to the risk experts but I don't see that as defensible. The difference in soil volume will be significant (but not outrageous), as there are about 20+% of the samples in between 400 and 500 ppm. DHEC has told them that EPA will do a removal if they don't take care of it. All DHEC is requiring is a surface soil removal to the same standard we would. You can draw your own conclusions as to why Exide won't do this.

I've coordinated with Mike Norman in EERB about this; we fully intend to address it if they won't. Exide has dragged, delayed, complained, etc. for about 1-1/2 years here and DHEC is ready for them to get it done, without more delays. There is considerable local interest and news coverage, as well as active litigation in progress (a class-action of former Exide plant workers is the one I'm aware of). I myself have been pushing DHEC for a long time to get on with it; I was the one who initiated the air study which will (presumably) tie the plant to the trailer park. (In spite of the simple obviousness of it, the company has maintained to DHEC for years that they're not responsible for the lead in the trailer park; yet they had air violations for Pb in the past.) In 23 samples by SESD in 6/97, Pb levels in the park go as high as 1300 ppm (this is \*after\* the 1995 EPA removal). In 80 samples NEIC took (w/ SESD assistance, at about that same time), the AVERAGE hit was 812 ppm lead, with a max of 2760 ppm (THIS DATA NOT YET RELEASABLE but is QA/QC'd). This is unacceptable, period.

Unless Elmer Akin or Mike Norman suggest another course of action based on this message, we intend to follow through with a Removal Action if Exide won't get on with it. Exide needs to get the lead out'so to speak. If you do a response, you can convey this as what the program is going to do.

With your permission I'd like to forward this message to Scott Wilson, the DHEC Project Manager; I see no reason he couldn't be made aware of their letter.

\_\_ Reply Separator

Subject: westgate

Author: Reuben Bussey at REGION4 Date: 11/4/1998 6:14 PM

Ralph, I checked CERCLIS and didn't find Westgate on either the list of sites or on the No Further Action list. Please let me know if the site's been NFRAPed or otherwise handed over to the state.

I've also received a letter from Exide complaining that the State is requiring a lead cleanup level of 400 ppm (residential), and claiming that the number is an EPA requirement. Exide correctly points out that the state has a right to require a higher standard of cleanup, if that's the state's preference. Exide believes, however, that DEHEC that's the state's preference. Exide believes, howeter, that DEHEC has misinterpreted EPA notice given by 63 Fed. Reg. 30,302 at 30,338 (June 3, 1998).

What do you think?

But-Bottom melsage releasable

2600 Bull Street Columbia, SC 29201-1708

CERTIFIED MAIL

COMMISSIONER: Douglas E. Bryant

BOARD: John H. Burriss Chairman August 31, 1998

William M. Hull, Jr., MD Vice Chairman

Roger Leaks, Jr. Secretary

Mark B. Kent

Cyndi C. Mosteller

Brian K. Smith

Rodney L. Grandy

Mr. Neil S. Lebo Exide Corporation P.O. Box 14205 Reading, PA 19612-4205

RE: Westgate Trailer Park Response Action Greenville County, South Carolina

Dear Mr. Lebo:

On July 28, 1998 the South Carolina Department of Health and Environmental Control (Department) received a report on Exide's behalf from Advanced Geoservices Corp. (AGC) regarding lead modeling at the Westgate Trailer Park (Westgate). The Department completed its review of the modeling on August 13, 1998 and forwarded the report to the EPA Region 4 office for their review. The EPA screening of the report was completed on August 26, 1998 and a subsequent conference call between the Department and EPA yielded several issues regarding the proposed removal level of lead at Westgate. These issues include a perceived discrepancy with the modeling itself, as well as concerns which exist on a programmatic level.

In regards to the IEUBK model conducted by AGC using site specific data for Westgate which had been previously gathered by the Department, the majority of the report was acceptable. However, the parameter input value for lead in soil and dust did trigger some concern from both Departmental and EPA risk assessors who reviewed the report. It was their opinion that no correlation between Westgate and the other two referenced sites which AGC had worked on existed. Therefore, the default ratio of 0.70 for indoor dust levels based on outdoor concentrations should have been used instead of the 0.25 value used in the report. Use of the default value would have resulted in a target lead soil value of approximately 370 ppm instead of the 520 ppm value generated in the report.

In addition to the above mentioned discrepancy in the modeling, both the Department and EPA are concerned on the potential precedent which the removal at Westgate may set. In a lead from EPA Region 4, the Department has adopted a residential level of 400 ppm for response actions to lead contaminated soils at state sites. If sufficient site-specific lead data does not exist to support an alternative removal level, then 400 ppm will be the default value. EPA has therefore conveyed to the Department that if Exide is unwilling to proceed with a removal of lead contaminated soils at Westgate to a level of 400 ppm, they will proceed with the response action themselves.

The Department is therefore requesting that a revised workplan be submitted within twenty days of the receipt of this letter. This workplan need not be as detailed and comprehensive as the plan submitted in July 1997, but should include mapped area of removal, a confirmatory sampling plan, the name of the contractor and sub-contractors who will carry out the work, and a schedule of implementation. If you feel there is a need for additional discussion on this matter, EPA has agreed to participate in an in-person meeting if one can be scheduled in a reasonable time frame. If the Department does not hear from you within several days of receiving this letter, we will assume you are proceeding with the workplan and implementation of the response action and that no meeting is necessary.

If you have any questions or concerns on this matter, please contact me at (803) 896-4077.

Sincerely,

R. Scott Wilson, Project Manager
Division of Site Assessment and Remediation

Bureau of Land and Waste Management

cc: Ralph Howard, EPA Region 4
R. Gary Stewart, BLWM
Charles Bristow, AppII District Office

May 15, 1998

### **MEMORANDUM**

SUBJECT: Initial Soil Lead Results for the Westgate Trailer Park, Greer, South

Carolina, Draft Report

Westgate Trailer Park

Greer, SC

Project No. R55, VP0300

FROM: Diana A. Love, Esq.

Director, NEIC

TO: Bruce Miller

Associate Director for Technical Support

EPA - Region 4, Atlanta, Georgia

Attached is a report for the subject case. If there are any questions, please contact Steve Machemer at (303) 236-5132, extension 287.

Attachment

Floyd Ledbetter cc:

Sherri Fields

NOTE EPA Documents
NETC docs &

air Division

2 copies of same

document

### Attorney Work Product/Enforcement Confidential FIOA Exempt/Draft Document

## UNITED STATES ENVIRONMENTAL PROTECTION AGENCY Office of Enforcement and Compliance Assurance Office of Criminal Enforcement, Forensics and Training

### ANALYTICAL RESULTS

Initial Soil Lead Results for the Westgate Trailer Park
Draft Report
Greer, South Carolina
Project No. R55,VP0300

MAY 15, 1998

Steve Machemer Project Leader

NATIONAL ENFORCEMENT INVESTIGATIONS CENTER
Diana A. Love, Director
Denver, Colorado

# Attorney Work Product/Enforcement Confidential FIOA Exempt/Draft Document

Initial Soil Lead Results for the Westgate Trailer Park
Draft Report
Greer, South Carolina
Project No. R55,VP0300

#### Introduction

At the request of EPA Region 4, NEIC conducted sampling and subsequent analysis of soil samples from the Westgate Trailer Park in Greer, South Carolina. The objective was to identify the source of lead contamination found in the trailer park soil. As an initial step, soil litter samples from the trailer park were analyzed for total lead concentration. This report provides the initial results of the lead analyses of the soil litter samples from the trailer park.

#### Sampling

Eighty samples (1A to 20D) of soil litter were subsampled from eighty soil cores taken from various locations in the Westgate Trailer Park on May 12, 1997. Soil cores were collected in polycarbonate core tubes 15 centimeters (6 inches) in length and 5 centimeters (2 inches) in diameter by slide hammer coring devices. Locations of twenty "A" samples (1A to 20A) were chosen based on XRF analyses conducted in the field by EPA-Region 4 personnel. To determine the areal extent and variability of lead concentrations in the soil, "B", "C", and "D" sample locations were chosen randomly relative to "A" samples as described below. This resulted in the collection of twenty sets of 4 samples, "A" through "D" which represented separate areas of soil in the trailer park.

Locations of twenty "B", twenty "C", and twenty "D" samples (1B to 20B, 1C to 20C, and 1D to 20D) were determined relative to "A" samples using a preconstructed template. The template was constructed using computer generated pairs of random numbers. The pairs of random numbers represented randomly selected sample locations for samples "B", "C", and "D" within separate one third areas of the circle with sample "A" at the center and a radius of 1.5 meters (5 feet) (Figure 1a). The configuration of "A", "B", "C", and "D" sample locations are shown in Figure 1a. Obstructions required the distance from sample "A" to each of samples "B", "C", and "D" to be cut in half for sample sets 1, 5, 14 and 15. In this way, 16 sample sets of 4 samples (A to D) represented the lead concentrations in the soil litter over separate areas of 7.3 square meters. For sample sets 1, 5, 14 and 15, the area was 1.8 square meters.

# Attorney Work Product/Enforcement Confidential FIOA Exempt/Draft Document

#### Sample Preparation

The litter layer material was separated from the mineral soil in the cores and dried to constant weight at 50 degrees Celsius. Litter layer samples were ground using a Spex Shatterbox ring and puck grinding mill. Aliquots of ground samples were prepared for analysis by nitric acid digestions and potassium hydroxide fusions.

#### Sample Analysis

Lead in the soil litter layer was analyzed by inductively coupled plasma-mass spectrometry (ICP-MS) on nitric acid digestions as the primary analytical technique. For confirmation, lead was also analyzed by inductively coupled plasma-atomic emission spectroscopy (ICP-AES) on potassium hydroxide fusions.

#### Sample Statistics

Averages, standard deviations, and relative standard deviations were calculated for the entire set of eighty lead analyses and for each set of 4 samples (A to D) representing distinct areas in the trailer park. In addition, two-sided (upper and lower) confidence limits for the mean at 95 percent confidence and three degrees of freedom were calculated for each area represented by sets of 4 samples.

#### Results

The ICP-MS results of lead concentrations for the soil litter in the trailer park are reported (Table 1a.). ICP-MS and ICP-AES analyses were in good agreement where 69 percent of results were within 10 relative percent difference and 99 percent of results were within 20 relative percent difference. The attached maps (Figure 1b and 1c) display the soil sample locations and lead concentrations for the soil litter layer in Westgate Trailer Park. For all eighty samples collected, lead concentrations average 812 mg/kg and range from 287 to 2760 mg/kg with a relative standard deviation of 63 percent. Large variations in lead concentrations are also found between areas represented by sample sets. For example, lead concentrations in sample set 17A-17D averages 356 mg/kg while lead concentrations in sample set 9A-9D averages 1925 mg/kg, or 5 times as much. These results show a large variability in lead concentrations within the trailer park.

In addition, large variations of lead concentrations occur within areas represented by sample sets. For example, sample set 10A-10D shows variations from 549 to 1310 mg/kg with a relative standard deviation of 49 percent, and sample set 19A-19D shows variations from 287 to 504 mg/kg with a relative standard deviation of

## Attorney Work Product/Enforcement Confidential FIOA Exempt/Draft Document

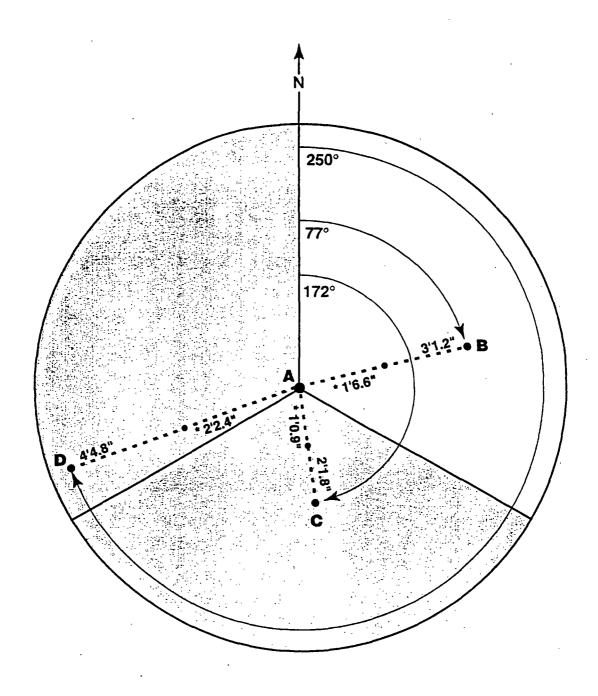
22 percent. These results indicate a large variability in lead concentrations within areas represented by sample sets.

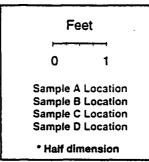
Upper confidence limits of the mean for areas represented by sets of 4 samples do not reveal any area in the trailer park where the average lead concentration is below 400 mg/kg at 95 percent confidence. In other words, variations in lead concentrations are too great over short distances (less than a meter) to distinguish areas of soil with lead concentrations below 400 mg/kg with any reasonable confidence. Therefore, based on a threshold level of 400 mg/kg, the entire area of the trailer park must be remediated with the possible exception of the northeast area which has previously undergone remediation activity.

\* Table 1s. Lead Concentrations in the Westgate Trailer Park soll litter.

Mass spectrometry results.

Sample	Lend (mg/kg)	Sample Set Std Dev	Sample Set Average	Relative Std Dev	LCL of the Mean	UCL of the Mean
001-ssa1	983		7.1 m. mg v	O.M. D-1		
001-ssb1 001-ssc1	1240					
001-asd1	1210 973	143	1102	0.13	874	1329
002-6881	801					
002-esb1 002-esc1	561 869					
002-esd1	836	140	767	0.18	544	989
003-ssa1	559					
003-ssb1 003-ssc1	1100 976					
003-ssd1	834	232	867	0.27	497	1237
004-esa1	1430					
004-esb1 004-esc1	642 1170					
004-esd1	836	350	1020	0.34	463	1576
005-esa1 005-esb1	1470 1610					
005-ssc1	1340					
005-ssd1	2550	550	1743	0.32	868	2617
006-esa1 006-esb1	987 1050					
006-esc1	645					
006-esd1	819	168	850	0.20	583	1117
007-ssa1 007-ssb1	620 625		•			
007-asc1	686					
007-ssd1	718	48	662	0.07	586	738
008-esa1 008-esb1	1210 2050					
008-ssc1	2050					
008-esd1 009-esa1	1390	439	1675	0.26	976	2374
009-ssb1	2760 1610			_		
009-asc1	1670	•				
009-ssd1 010-esa1	1660	557	1925	A COUNTY	1038	2812
010-esb1	572 602	•		17 17		
010-esc1	1310	M.	13.2			
010-esd1 011-esa1	549 321	3682	758	0.49	172	1344
011-sab1	876					
011-asc1	613					
011-esd1 012-esa1	367 679	256	544	0.47	138	951
012-esb1	641					
012-ssc1	526	100	666	0.40		957
012-esd1 013-asa1	817 836	120	900	0.18	475	857
013-aab1	474			25		
013-ssc1 013-ssd1	693 669	140	Tana T	٠٠١ لم	431	905
014-6881	418		A 52	" Bee		
014-esb1	371	الأحراب		•		
014-esc1 014-esd1	445 316	Qu'	388	0.15	297	478
015-ssa1	440					
015-asb1 015-asc1	400 541					
015-ssd1	527	68	477	0.14	369	585
016-esa1	466					
016-esb1 016-esc1	512 301					
016-esd1	460	92	435	0.21	288	\$81
017-asa1 017-asb1	336 445					
017-8301 017-8301	323					
017-ssd1	319	60	356	0.17	260	451
018-esa1 018-esb1	442 370					
018-esc1	471					
018-esd1	411	43	424	0.10	355	492
019-ssq1 019-ssb1	504 287					
019-asc1	423					
019-ssd1	418	90	408	0.22	265	551
020-esa1 020-esb1	502 485					
020-esc1	488					
020-esd1	522	17		0.03	472	526
everage minimum	812 297	197 17	812 356	0.22 0.03	498 138	1126 451
meximum meximum	287 2760	17 567	1925	0.49	1038	2812
etd dev	511	169	469	0.12	261	718
red median	0.63 633	0.86 142	0.58 667	0.53 0.20	0.52 468	0.64 928
ALIMAN MALI	033	192	· · · ·		700	940





**DRAFT** 

Figure 1a TEMPLATE DIMENSIONS FOR THE WESTGATE TRAILER PARK SAMPLING May 12, 1997





F ... (0)

Author: Ralph Howard at REGION4

Date: 02/03/98 10:55 AM

Priority: Normal

TO: stewarrg@columb34.dhec.state.sc.us at IN

CC: Kevin Koporec CC: Cynthia Peurifoy CC: Ralph Howard CC: Jan Rogers

Subject: Re[2]: Westgate MH Site, SC: Assistance setting a Pb Goal

----- Message Contents

Re: Lead (Pb) at Westgate

Gary:

Below is Kevin Koporec's response back to me after I ccmailed Glenn Adams (also in Elmer Akin's shop) about Westgate. Based on what he says, I would advise that your approach be based on these factors:

- 1. If EPA was to implement this removal today, we would go to 400 ppm.
- 2. If the RP wants to use some other cleanup goal, it should be with State approval, and should be based on site-specific data as Kevin notes below, such as bioavailability of the particular Pb species present, possible contributing exposure from other sources than surf. soil, etc.
- 3. However, site-specific data to date (that Dr. Marino has) showed, in the past, a completed pathway as evidenced by elevated blood lead levels, i.e. there \*IS\* bioavailable Pb present. This argues against allowing a higher number.
- 4. Dr. Marino believed at one point that our 1995 removal, to 500 ppm, had not been stringent enough (should've been to lower goal). However, the 11/96 surf. soil data showed Pb in areas NOT removed by EPA, suggesting that EERB's grid just missed some high areas or (more likely) hot spots. The cause of the post-1995-removal blood lead numbers Dr. Marino saw isn't clear and could be either one, although we obviously need to consult Dr. Marino on this.

If you elect to allow them to submit such Pb data, we'd be happy to review it (Elmer's staff) and offer an

#### opinion on it. Let me know if I can help further.

ward Header
١

Subject: Re[2]: Westgate MH Site, SC: Assistance setting a Pb Goal: S

Author: Kevin Koporec Date: 02/03/98 07:39 AM

#### Ralph,

400 ppm is our current PRG/action level for Pb in surface soil, per the revised interim directive on soil Pb. This value is based on the current IEUBK Pb model for child exposure. Site-specific data (e.g. bioavailability of soil Pb, exposure levels to Pb from other routes) would need to be obtained to alter this PRG.

I am out of the office today, but I will be happy to speak with you (and Dr Marino as needed) when I return.

Kevin

Author: Ralph Howard at REGION4

Date: 06/19/97 05:29 PM

Priority: Normal

TO: klendermh@columb34.dhec.state.sc.us at IN

CC: Floyd Ledbetter CC: Ralph Howard

Subject: Re: Westgate Trailer Park metals data

----- Message Contents -----

Mike: Below is from Tim Simpson at Athens, they've received the metals data from the soil samples ya'll collected....

What's going on with your RI/FS? No one's called me yet from Exide, I'm kind of surprised....

I'm concerned about the time going by since ya'll had the surface soils data on hand (11/96 or so)... You probably need to go ahead and warn Exide that they're gonna have to get the above-500-ppm soil out of there. Above 500 mg/kg is officially REMOVAL-type stuff, and we'll all be asked later why it took so long if those levels are supposed to lead to immediate removal. You could touch base with Shane Hitchcock here and request EPA to do it, which will buy you all some time since EERB will give Exide the chance to do the removal anyway.

Mike, also, this soil data Tim has should probably be used by DHEC and EPA to supplement our understanding of exactly where the soil exceeds 500 ppm. For ex., this data may show a problem in an area that Exide's 11/96 data says is clean: so that when it's time to do the removal, they can 1) excavate based on these samples or 2) re-sample, but they can NOT rely on their old data only.

Reply Separator

Subject: Westgate Trailer Park metals data Author: Timothy Simpson at REGION4

Date: 06/19/97 03:48 PM

I got some of the metals data back for Westgate. For the samples SESD collected and analyzed, lead ranges from 200-1300 mg/kg. We detected a total of 18 different metals.

5 Machener

# ENVIRONMENTAL PROTECTION AGENCY OFFICE OF CRIMINAL ENFORCEMENT, FORENSICS, AND TRAINING NATIONAL ENFORCEMENT INVESTIGATIONS CENTER BUILDING 53, BOX 25227, DENVER FEDERAL CENTER DENVER, COLORADO 80225

April 9, 1997

#### MEMORANDUM

SUBJECT: Request For Laboratory Assistance, Lead

Characterization, Greer, South Carolina

FROM: Gene Lubieniecki

Civil Program Coordinator, NEIC

TO:

Beverly A. Spagg, Chief

Air & EPCRA Enforcement Branch

Air Pesticides & Toxics Management Division, Region 4

This memo is in response to your March 19, 1997, request for the subject support and subsequent phone conversations between NEIC personnel and Floyd Ledbetter of your staff. As discussed, NEIC will provide analytical support to help identify the source of lead contamination in the local community of Westgate.

We are currently planning to conduct a site reconnaissance in late April to help develop a sampling plan/analysis strategy and we understand that Region 4 is working to ship air filter samples to the NEIC for analysis. Based on previous discussions, Region 4 will be responsible for collection of soil samples which will be shipped to the NEIC for analyses. Until we receive and begin working with the samples, it is difficult to determine a reasonable time frame for sample analyses and evaluation. Our understanding is that there is currently no deadline (statute of limitations, etc.) for returning sample analyses and evaluation results. Therefore, we propose to maintain communications with your staff regarding our activity and progress once we begin receiving the samples.

If you have any questions, please contact me (303-236-5111, ext. 539) or Dr. Steve Machemer, NEIC Project Leader for this support (303-236-5132, ext. 287).

cc: Bruce Miller, Assoc. Director for Technical Support, Region 4
Floyd Ledbetter, Region 4



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 4

ATLANTA FEDERAL CENTER

100 ALABAMA STREET, S.W.

ATLANTA, GEORGIA 30303-3104

MAR 1 9 1997!

**4APT-AEEB** 

**MEMORANDUM** 

Request for Assistance In Conducting Lab Analysis of Soil and High Vol Samples SUBJECT:

Collected in Greer, South Carolina, in Support of SCDHEC Hazardous Waste

Division

FROM:

Beverly A. Spagg, Chief Fluely H. Thanks Air & EPCRA Enforcement Branch

Air Pesticides & Toxics Management Division

TO:

Eugene Lubieniecki, Chief

Civil Enforcement Support Branch

NIEC Operations Division

Region 4 is requesting assistance in the form of laboratory analysis for specific lead compounds in both soil samples and High Vol filters in support of an ongoing enforcement action in South Carolina by the South Carolina Division of Hazardous Waste. The company (Exide) has completed a Remedial Investigation, dated January 1997, in which they drew several conclusions; mainly that Exide is not responsible for lead deposition in Westgate. Although they are the only source of lead in the area, they have highly elevated levels of lead on their property. Current models have shown that deposition from their stacks has occurred; however, they claim they are not responsible. The Regional Waste Division staff, in working with South Carolina, asked us if we knew of a way to show responsibility of lead deposition or could assist them in doing so. Attached is a proposal by members of my staff to specifically identify the source of lead emissions impacting Westgate Trailer Park.

We are under no specific deadline; however, we do not want to see a responsible party remove themselves from responsibility. We request that you evaluate our proposal and let us know your desire and ability to respond. We are also looking into Region 4's capability to perform these analysis in our own laboratory, and should both of you desire, to participate we will work out any details necessary to split the work. Please contact either myself or Dick DuBose, Air Enforcement Section Chief at (404) 562-9168, Floyd Ledbetter at (404) 562-9218 or Jean Campbell at (404) 562-9193 of my staff if you have any questions or need assistance.

Attachments

awart Dourant

# Proposal for Identifying the Specific Source of Pb (Lead) Emissions in Westgate Trailer Park in Greer, South Carolina

#### U.S. Environmental Protection Agency Region 4 Atlanta, Georgia

Floyd Ledbetter, P.E., & Jean Campbell
Air & EPCRA Enforcement Branch
Air Pesticides & Toxics Management Division

March 13, 1997

Site Location:

Westgate Trailer Park, Greer, South Carolina, is located at the intersection of US Hwy 29 and Old Chick Springs Road on the north side of the P & N RR. Westgate Trailer Park, developed in the 1960's, is on approximately a 5 acre tract adjacent to Exide Corp. Located to the SW.

Background:

In June of 1994, Roy F. Weston, Inc., under contract to EPA, collected soil samples in the trailer park and a clean up was undertaken in part of the trailer park. Currently SCDHEC has a Consent Order 96-12-HW (Hazardous Waste) which calls for Exide to do additional remediation if they feel it necessary and show Exide responsible. EPA Region 4 Waste Division called the AP&TM Division and asked if we could render assistance.

Objective:

Identify the source of Lead (Pb) deposited within the trailer park so that the responsible party can be identified and so remediation can be undertaken as needed by said responsible party.

Proposed Methodology:

In addition to standard methods, i.e., modeling and lack of other sources of Pb emissions, we believe it possible to identify the source of Pb emissions through speciation of the Pb bearing compounds in the soil samples both from the Exide property and in the trailer park as well as from the High Vol samples collected in 1994-95 by the State.

Required Work:

Collect approximately (30) thirty, 100 gram (4 oz) samples at both locations in a manner that is representative of Lead on the site based of previous soil samples as taken for the Exide Corp. In 1996, as shown in the Remedial Investigation Report Westgate Trailer Park dated January 1997. Concentrations are not critical, as long as they contain enough Lead for analysis. In addition collect approximately five (5), 100 gram (4 oz.) soil samples from an area adjacent to US 29 but away from the influence of Exide's emissions. These are to show automotive impact or the lack thereof.

Responsible Party for Work:

a) Soil samples will be collected either by South Carolina personnel or EPA Region 4 personnel and shipped to the EPA Lab for analysis.

b) The 10 highest Pb bearing High Vol samples will be shipped by South Carolina to the EPA Lab for analysis.

#### Assistance Needs:

Soil and High Vol analysis in the form of determination of specific Pb compounds in each sample, i.e. PbO, Pb<sub>3</sub>O<sub>4</sub>, PbS, PbSO<sub>4</sub>, etc., to enable identification of the source and/or the elimination of automotive sources as contributors.

- a) Time table of analysis and reports,
- b) Cost if any and to whom
- c) Any special requirements or needs.

Ralph O. Howard, WASTE-NSMB-SC

NEIC

o Joe Loury + Floyd L. spoke 4/1/9 and will support o Joe-went thru similar cases	7. They can
and will support	WEIC John Simon 26%
· Joe-went thra similar cases	MACHEMER 28
	KIZZER
o How: 1) co-contaminants (battery component metals) 2) is otope ratios	- As. Artimony
3) mut/s assoc. w/ sultire	acid -selenium (-elevated)
- get samples from highway ROU	) also
in the second of	
o Send the high-vols on	· · · · · · · · · · · · · · · · · · ·
· Does the state have older (pre- 94) Filte	7
	IZA1(05
o Soil sampling	Pb 206 -20 Pb 207 Pb 208 Exide) P6 208
- need an undististed population	-20 Pb 207
- need a highway - 20 ( no	Exide) P6 208
- need a highway - 20 (no - receptor (trailer pk) - 20 - soil onsite - 5 or 10?	
- soil onsite-500 10?	
1) Depthe profile 2) Distance (dininih away)	•
(dimine away)	
5 E = 10 chart 1/2 + c -1 - 1/2	
o For now, start wont soil sampling	

Mike Klender-Dr. Rat. Marino-HH EVA EXIDE BATTERY

@ Questions re: current status + process

Phil Shoping-Air OC

Dang Johns - Dist

Flord celletter Askid Apont

pont.

RH -> Overview of history Renoval-sommer PY

@ Per [4/44 exceed 500 ppm

18 SE

No Aight ceedances of Mostgate at all. @ Existe no sust why

Discussion of "Fingerprinting

· Mhat is objective? Mains -> stop exposure

· Not -> paint, dust etc. in homes (Marine)

o Mech discussion

o To do:

A) Fingerprint Effort: Floyd Ledbether-into; Phil Sharping also

B) Air will continue their 303 etfort-or, determining it they

# EXIDE BATTERY Feb. 13, 1997 Meeting

· Floyd LEDBETTER-	AIR EXF.	2-9218
Astria E-Aponte	ι (	29199
Caroline Robinson	<b></b>	29203
Dick DuBose	71	2-9168
BEVERLY SPAGG	· · · · · · · · · · · · · · · · · · ·	29170
Leif Palmer	EAD	2-8542
Rayoh O. Howard, Jr.	NSMB	28829

* 1	CONVERSATI	RECORD	11:45M	12-0	6-96
TYPE	VISIT	CONFERENCE	TELEPHONE		ROUTING NAME/SYMBOL INT
Location of Visit	t/Conference:		_	NCOMING OUTGOING	
NAME OF PERSON	IS CONTACTED OR IN CO	NTACT ORGANIZATION (Office	e, dept., bureau. TELEPH	ONE NO:	
Mike	e Klender	SCOHE	C (203)8	96-4073	
SUBJECT E	XIDE BAT	TERY - Green	•		
•					
SUMMARY					
-Conse	et order s	youd 4/9/96	, FBI inve	stigation	oder
is	with BSHM	mgrt. Cochran A	notors person	el took	fill ditt from
A	cres, trailer	laguan Exide	e syrady	plant,	King
-Nov.	96 50:1	Samples - 50 - 1	rollected. G	ridded	-out. Samo
are	ens EPA dia	not take out in	REMOVAL.		,
14.7	4 4	ew blood tests o		7	· //
/	. <i>V</i>	= is the source	A .		11/
. rem	ove soil,	serhass down	to 200 mg	/kg (	Not 400).
		sterviews w/res			
Leve	ls remain	high. Not simply	"lead-dust	"in tra	iles, either
		Inst sayoles).		,	
_ By #	March, March	, full report	will come	in an	d can nai
Exi	le or no	+. May BR Ma	y not need	1 more	soil remove
ACTION DECIN	0.00		/ 	<del></del>	
ACTION REQUI	RED				
		0		1	·
- 11	Howard, Jr.	SATION SIGNATURE	Ottom	DATE 12.	-6-96
ACTION TAKEN		1 Verve		·	7
SIGNATURE		) TITLE	<del></del>	DATE	<u> </u>
-					•
50271-101 # G	PO : 1984 O - 461-275 (3	17) CONVERSATION R	ECORD	OP1 DEF	IONAL FORM 271 (12-76) ARTMENT OF DEFENSE

Phyllis Warrlow 29198

### **EXIDE** CORPORATION

#### Neal S. Lebo

Director **Environmental Operations** 

P.O. Box 14205

Phone: (610) 378-0577

645 Penn Street

Fax: (610) 371-0463

Reading, PA 19612-4205 E-mail: NLEBO@EXIDEWORLD.COM

LAW OFFICES

Poliakoff and Associates, P.A. 215 Magnolia Street Spartanburg, South Carolina 29306

MAILING ADDRESS.

P.O. BOX 1571

SPARTANBURG, SOUTH CAROLINA 29304

TELEPHONE: (864) 582-5472 (864) 582-8101 FACSIMILE: (864) 582-7280

BERNARD B. POLIAKOFF

0916-1933)

J. MANNING POLIAKOFF

0923-1969)

MATTHEW POLIAKOFF

0919-1979

November 18, 1999

Mr. Ralph Howard U.S. EPA Region IV Atlanta Federal Center 61 Forsythe Street, SW Atlanta, GA 30303-3415

GARY W. POLIAKOFF

AttyPoliko@aol.com

RAYMOND P. MULLMAN, JR. RMullmanjr@aol.com

**RE:** EXIDE CORPORATION - GREER, S.C. FACILITY

Dear Mr. Howard:

Enclosed is the deposition of Exide's in-house counsel, Ari D. Levine.

As you know we have requested that Exide clean up King Acres subdivision. We hope that this information will assist S.C. DHEC in getting cooperation from Exide Corporation. We believe the clean up should be 400 ppm or less and down to six inches.

Thank you for your attention to this matter.

With best regards, I am

Yours very truly,

RAYMOND P. MULLMAN, JR.

ATTORNEY AT LAW

Enclosure

cc: Steve Machemer, NEIC

Ms. Theresa Hosicle, NEIC

1	IN THE UNITED STATES DISTRICT COURT
	FOR THE DISTRICT OF SOUTH CAROLINA
2	GREENVILLE DIVISION
3	
4	MARK ANTHONY BYARS, :
	Plaintiff :
5	: Notice and
	v. :
6	:
	EXIDE CORPORATION, :
7	Defendant : C/A No: 6:99-1933-20
8	
9	October 22, 1999
10	
11	
12	Oral deposition of ARI LEVINE, held in
13	the offices of SCHNADER, HARRISON, SEGAL &
14	LEWIS, LLP, Suite 3600, 1600 Market Street,
15	Philadelphia, Pennsylvania, commencing at
16	11:05 p.m., on the above date, before Sheila E.
17	Malen, Registered Professional Reporter and
18	Notary Public in and for the Commonwealth of
19	Pennsylvania.
20	· · · · · · · · · · · · · · · · · · ·
21	ESQUIRE DEPOSITION SERVICES
	15th Floor
22	1880 John F. Kennedy Boulevard
	Philadelphia, Pennsylvania 19103
23	(215) 988-9191
2 4	

#### Ari Levine

2	1
j	4
1 APPEARANCES:	1 EXHIBITS
POLIAKOFF, POOLE & ASSOCIATES 3 BY: RAYMOND P. MULLMAN, JR., ESQUIRE	2 NO. DESCRIPTION PAGE
Courthouse Square 4 215 Magnolia Street	3 15 6/15/99 DEHEC to Lebo 115
P.O. Box 1571 5 Spartanburg, South Carolina 29304	4 16 5/28/99 Faxed letter 118 from Levine to Bussey
(864) 582-5472 6 Counsel for the Plaintiff	5
7 OGLETREE, DEAKINS, NASH,	17 6/21/99 EPA to Levine 127
SMOAK & STEWART, P.C.  8 BY: L. GRAY GEDDIE, JR., ESQUIRE	18 Newspaper article 6/23/99 134
The Ogletree Building 9 300 North Main Street	7 19 Newspaper article 6/25/99 136
P.O. Box 2757 10 Greenville, South Carolina 29602	8
(864) 271-1300 11 Counsel for the Defendant	9 : 10 -
12 SCHNADER HARRISON SEGAL & LEWIS, LLP	11
BY: ROBERT L. COLLINGS, ESQUIRE  13 1600 Market Street - Suite 3600	12 -
Philadelphia, Pennsylvania 19103-7286 14 (215) 751-2074	14
Counsel for the Defendant	15 16
	17
16 17	18 19
. 18 · 19	20
: 20 } 21	21 22
22 23	23
24	24
3	5
1 INDEX	1
2 WITNESS PAGE	2 (It is hereby stipulated and
<u></u>	3 agreed by and among counsel that the 4 sealing, filing and certification are
3 ARI D. LEVINE, ESQUIRE 4 By Mr. Mullman, Jr. 5	4 sealing, filing and certification are
4 Dy Mii. Midillian, Jr.	5 waived: and that all objections except as
5	5 waived; and that all objections, except as 6 to the form of the question, are reserved
,	
5 6 7 EXHIBITS	6 to the form of the question, are reserved 7 to the time of trial.) 8
5 6 7 EXHIBITS 8 NO. DESCRIPTION PAGE	6 to the form of the question, are reserved 7 to the time of trial.) 8 9 ARI D. LEVINE, ESQUIRE, after
5 6 7 EXHIBITS 8 NO. DESCRIPTION PAGE 9 Letter 10/18/99 Geddie to Poliakoff 6	to the form of the question, are reserved to the time of trial.)  ARI D. LEVINE, ESQUIRE, after having first been duly sworn, was examined
5 6 7 EXHIBITS  8 NO. DESCRIPTION PAGE  9 I Letter 10/18/99 Geddie to Poliakoff 6 10 2 NEIC Report May 1998 21 11 3 Report by General Engineering Labs 49	to the form of the question, are reserved to the time of trial.)  ARI D. LEVINE, ESQUIRE, after
5 6 7 EXHIBITS  8 NO. DESCRIPTION PAGE  9 I Letter 10/18/99 Geddie to Poliakoff 6 10 2 NEIC Report May 1998 21 11 3 Report by General Engineering Labs 49 12 4 Newspaper article 9/20/99 53	to the form of the question, are reserved to the time of trial.)  ARI D. LEVINE, ESQUIRE, after having first been duly sworn, was examined and testified as follows:
5 6 7 EXHIBITS  8 NO. DESCRIPTION PAGE  9 I Letter 10/18/99 Geddie to Poliakoff 6 10 2 NEIC Report May 1998 21 11 3 Report by General Engineering Labs 49 12 4 Newspaper article 9/20/99 53 13 5 Letter 11/5/98 77 14 6 Letter 12/31/96 Sighter to Jones 83	to the form of the question, are reserved to the time of trial.)  ARI D. LEVINE, ESQUIRE, after having first been duly sworn, was examined and testified as follows:  EXAMINATION
5 6 7 EXHIBITS  8 NO. DESCRIPTION PAGE  9 I Letter 10/18/99 Geddie to Poliakoff 6 10 2 NEIC Report May 1998 21 11 3 Report by General Engineering Labs 49 12 4 Newspaper article 9/20/99 53 13 5 Letter 11/5/98 77 14 6 Letter 12/31/96 Sighter to Jones 83 15 7 Letter EPA to Levine 9/28/95 85	to the form of the question, are reserved to the time of trial.)  ARI D. LEVINE, ESQUIRE, after having first been duly sworn, was examined and testified as follows:  EXAMINATION  HEAD OF THE PROPERTY OF THE
5 6 7 EXHIBITS  8 NO. DESCRIPTION PAGE  9 I Letter 10/18/99 Geddie to Poliakoff 6 10 2 NEIC Report May 1998 21 11 3 Report by General Engineering Labs 49 12 4 Newspaper article 9/20/99 53 13 5 Letter 11/5/98 77 14 6 Letter 12/31/96 Sighter to Jones 83 15 7 Letter EPA to Levine 9/28/95 85 16 8 Fax 2/28/96 86 17 9 EPA Memo 3/19/97 89	to the form of the question, are reserved to the time of trial.)  ARI D. LEVINE, ESQUIRE, after having first been duly sworn, was examined and testified as follows:  EXAMINATION  EXAMINATION  HOW THE PROPERTY OF THE PROPER
5 6 7 EXHIBITS  8 NO. DESCRIPTION PAGE  9 I Letter 10/18/99 Geddie to Poliakoff 6 10 2 NEIC Report May 1998 21 11 3 Report by General Engineering Labs 49 12 4 Newspaper article 9/20/99 53 13 5 Letter 11/5/98 77 14 6 Letter 12/31/96 Sighter to Jones 83 15 7 Letter EPA to Levine 9/28/95 85 16 8 Fax 2/28/96 86	to the form of the question, are reserved to the time of trial.)  ARI D. LEVINE, ESQUIRE, after having first been duly sworn, was examined and testified as follows:  EXAMINATION  EXAMINATION  BY MR. MULLMAN:  Q. Mr. Levine, I'm not going to go through the normal stuff, introductory stuff.
5 6 7 EXHIBITS  8 NO. DESCRIPTION PAGE  9 I Letter 10/18/99 Geddie to Poliakoff 6 10 2 NEIC Report May 1998 21 11 3 Report by General Engineering Labs 49 12 4 Newspaper article 9/20/99 53 13 5 Letter 11/5/98 77 14 6 Letter 12/31/96 Sighter to Jones 83 15 7 Letter EPA to Levine 9/28/95 85 16 8 Fax 2/28/96 86 17 9 EPA Memo 3/19/97 89 18 10 Letter 8/13/97 DHEC to Mr. Lebo 94 19 11 DHEC to Lebo 4/14/98 97 20 12 Letter 12/6/98 Exide to S.C. 101	to the form of the question, are reserved to the time of trial.)  ARI D. LEVINE, ESQUIRE, after having first been duly sworn, was examined and testified as follows:  EXAMINATION  EXAMINATION  BY MR. MULLMAN:  Q. Mr. Levine, I'm not going to go through the normal stuff, introductory stuff.
5 6 7 EXHIBITS  8 NO. DESCRIPTION PAGE  9 I Letter 10/18/99 Geddie to Poliakoff 6 10 2 NEIC Report May 1998 21 11 3 Report by General Engineering Labs 49 12 4 Newspaper article 9/20/99 53 13 5 Letter 11/5/98 77 14 6 Letter 12/31/96 Sighter to Jones 83 15 7 Letter EPA to Levine 9/28/95 85 16 8 Fax 2/28/96 86 17 9 EPA Memo 3/19/97 89 18 10 Letter 8/13/97 DHEC to Mr. Lebo 94 19 11 DHEC to Lebo 4/14/98 97	to the form of the question, are reserved to the time of trial.)  ARI D. LEVINE, ESQUIRE, after having first been duly sworn, was examined and testified as follows:  EXAMINATION  EXAMINATION  OMES MR. MULLMAN:  OMES MR. MULLMAN:  OMES MR. MULLMAN:  Which is the mortal stuff, introductory stuff.  You're an attorney; you know your rights and you head to?
5 6 7 EXHIBITS  8 NO. DESCRIPTION PAGE  9 I Letter 10/18/99 Geddie to Poliakoff 6 10 2 NEIC Report May 1998 21 11 3 Report by General Engineering Labs 49 12 4 Newspaper article 9/20/99 53 13 5 Letter 11/5/98 77 14 6 Letter 12/31/96 Sighter to Jones 83 15 7 Letter EPA to Levine 9/28/95 85 16 8 Fax 2/28/96 86 17 9 EPA Memo 3/19/97 89 18 10 Letter 8/13/97 DHEC to Mr. Lebo 94 19 11 DHEC to Lebo 4/14/98 97 20 12 Letter 12/6/98 Exide to S.C. 101 Department of Health and Environmental Control 22 13 EPA to Levine 1/13/99 107	to the form of the question, are reserved to the time of trial.)  ARI D. LEVINE, ESQUIRE, after having first been duly sworn, was examined and testified as follows:  EXAMINATION  EXAMINATION  OMEGA Mr. Levine, I'm not going to go through the normal stuff, introductory stuff. You're an attorney; you know your rights and you know that you can take a break, correct, if you need to?  A. I do.
5 6 7 EXHIBITS  8 NO. DESCRIPTION PAGE  9 I Letter 10/18/99 Geddie to Poliakoff 6 10 2 NEIC Report May 1998 21 11 3 Report by General Engineering Labs 49 12 4 Newspaper article 9/20/99 53 13 5 Letter 11/5/98 77 14 6 Letter 12/31/96 Sighter to Jones 83 15 7 Letter EPA to Levine 9/28/95 85 16 8 Fax 2/28/96 86 17 9 EPA Memo 3/19/97 89 18 10 Letter 8/13/97 DHEC to Mr. Lebo 94 19 11 DHEC to Lebo 4/14/98 97 20 12 Letter 12/6/98 Exide to S.C. 101 Department of Health and 21 Environmental Control 22 13 EPA to Levine 1/13/99 107 EPA to Howard 12/1/98 23	to the form of the question, are reserved to the time of trial.)  ARI D. LEVINE, ESQUIRE, after having first been duly sworn, was examined and testified as follows:  EXAMINATION  EXAMINATION  OR Mr. Levine, I'm not going to go through the normal stuff, introductory stuff.  You're an attorney; you know your rights and you know that you can take a break, correct, if you need to?  A. I do.  MR. GEDDIE: Excuse me. Before
5 6 7 EXHIBITS  8 NO. DESCRIPTION PAGE  9 I Letter 10/18/99 Geddie to Poliakoff 6 10 2 NEIC Report May 1998 21 11 3 Report by General Engineering Labs 49 12 4 Newspaper article 9/20/99 53 13 5 Letter 11/5/98 77 14 6 Letter 12/31/96 Sighter to Jones 83 15 7 Letter EPA to Levine 9/28/95 85 16 8 Fax 2/28/96 86 17 9 EPA Memo 3/19/97 89 18 10 Letter 8/13/97 DHEC to Mr. Lebo 94 19 11 DHEC to Lebo 4/14/98 97 20 12 Letter 12/6/98 Exide to S.C. 101 Department of Health and 21 Environmental Control 22 13 EPA to Levine 1/13/99 107 EPA to Howard 12/1/98	to the form of the question, are reserved to the time of trial.)  ARI D. LEVINE, ESQUIRE, after having first been duly sworn, was examined and testified as follows:  EXAMINATION  EXAMINATION  OMEGA Mr. Levine, I'm not going to go through the normal stuff, introductory stuff. You're an attorney; you know your rights and you know that you can take a break, correct, if you need to?  A. I do.

l conversation that you and I had regarding 2 his deposition, I pointed out to you our 3 concern about inquiring into privileged 4 matters. It is not our intention to 5 obstruct your examination in any fashion, 6 but if at any time either Mr. Levine or I 7 think that you're delving into privileged 8 matters, we will raise that objection. 9 and/or we will confer. If in the event 10 that we do confer on that, under Judge 11 Herlong's order, then we will advise you 12 what we talked about. 13 MR. MULLMAN: Sounds good. Do 14 you want to make that letter an exhibit? 15 MR. GEDDIE: That's fine. Sure. 16 Make it Exhibit No. 1. That's a copy of 17 the letter. 18 MR. MULLMAN: That's fine. I 19 don't think that's going to be a problem. 20 (Whereupon, Exhibit 1 was marked 21 for identification.) 22 BY MR. MULLMAN: 23 Q. Mr. Levine, when did you first start 24 working for Exide? 7 1 A. November 1994. 2 Did you work for any of Exide's subsidiaries before that? 4 A. I did not. 5 Ο. Do you know the names of Exide's 6 subsidiaries? A. I know the names of some of them. 8 Okay. Can you name them? 9 A. We're talking current subsidiaries? 10 Q. Sure. 11 General Battery Corporation, Exide 12 Holdings Europe, Inc. Excuse me. Exide 13 Holdings Europe, SA. Exide Investments, Inc. 14 There's another company. I believe the name is 15 Exide Company, LLC. Those are the direct subsidiaries that I recall at this time. 17 Q. And what was your job starting in 18 November of 1994?

A. The title changed more to reflect the reality of my job responsibilities in or about October 1997, I believe, to simply Assistant General Counsel. In August 1997 -- excuse me. The October would have been October 1996. In August 1997, I assumed, as well, the title of 7 Director Regulatory Affairs, which made me, in addition to my counsel responsibilities, a member of the management team responsible -decision-making in certain environmental areas. 11 And who had that job before August of 12 1997? 13 A. That job did not exist. It was a 14 part of another job. Q. Okay. Well, how did your 15 16 responsibilities change from November '94 to 17 October '96 and then to August '97? 18 A. From November 1994, really through August '97, my responsibilities suddenly 20 expanded in terms of the scope of legal areas for which I was responsible. The change in my 22 title in or about October 1996 to simply 23 Assistant General Counsel was a recognition of 24 that fact. After August 1997, I assumed, in

8

1 addition, what I would call line responsibility

2 for certain environmental matters.

3 Q. And what certain responsibility --

environmental matters were they?

5 A. Off-site lia -- pardon me. Not

off-site liabilities. Third-party owned sites,

which are, or thought to be, contaminated, and

facilities which the company formerly operated.

9 or closed plants.

10 Q. Would that include Westgate Trailer 11 Park, King Acres, in Greer, South Carolina?

A. Yes, it would. 12

13 O. Have you ever been deposed before?

14 A. I have.

15 Q. Okay. In what case?

16 A. I was deposed in a case encaptioned

17 Pep Boys, Manny, Mo and Jack, Incorporated

18 versus Exide Corporation, which is pending in

19 Superior Court in the State of New Jersey. I

20 was also deposed as a 30(b)(6) deponent. I'm 21 trying to remember the name of the case. In a

22 case brought by RSR Corporation in connection

with the Avanti, A-V-A-N-T-I, site in

Indianapolis.

22 Q. Yes.

19

23 A. Okay.

Was the question 1994?

24 And when did you change positions?

A. My title was Assistant General

20 Counsel, Environmental Services. I'm sorry.

- 1 Q. What were the allegations in that
- 2 case?
- 3 A. The RSR case?
- 4 Q. Uh-huh.
- 5 A. RSR has brought suit against a number
- 6 of parties claiming that they are potentially
- 7 responsible parties under CERCLA for response
- 8 costs incurred and to be incurred at the Avanti
- 9 site.
- 10 Q. And did that have to do with lead
- 11 contamination?
- 12 A. The Avanti site was a battery -- I
- 13 believe a battery smelter. A lead smelter.
- 14 Excuse me. So there is lead contamination
- 15 present there, yes.
- 16 Q. Was the cleanup of lead contaminated
- 17 soil?
- 18 A. I do not believe there has been a
- 19 cleanup of lead contaminated soil there yet.
- 20 Q. Do you know what the proposed cleanup
- 21 level is?
- 22 A. I do not. I'm not certain there is
- 23 one yet.
- 24 Q. And what state is that? I'm sorry.
- 11

- 1 A. Indiana.
- 2 Q. Have you had a chance to look at the
- 3 documents that I sent your attorney Wednesday of
- 4 this week?
- 5 A. I have.
- 6 Q. Has Exide performed any remediation
- 7 in King Acres?
- 8 A. No.
- 9 Q. Are they studying the level to be
- 10 cleaned up in King Acres?
- 11 A. We have retained Advanced Geo
- 12 Services Corporation or AGC of Chadds Ford,
- 13 Pennsylvania, and AGC has, I believe, completed
- 14 the sampling necessary to begin running the
- 15 model to determine the answer to that question.
- 16 Q. Why wouldn't you use the same cleanup
- 17 level that was used in Westgate Trailer Park?
- 18 A. We believe that the cleanup level
- 19 that was used at Westgate Trailer Park is overly
- 20 conservative, perhaps by an order of magnitude,
- 21 and --
- 22 Q. Okay.
- 23 A. -- are attempting to determine what
- 24 is protective of human health and the

- 1 environment at King Acres, using a site-specific
- 2 model approved by EPA and apparently accepted
- 3 to DHEC.

- 4 O. What are the different site factors
- that you would apply to King Acres that wouldn
- 6 be applied in Westgate Trailer Park?
  - A. I am not familiar in any detailed
- 8 sense with the computer modeling. That's one c
- 9 the reasons we retain outside contractors. In
- 10 addition, I would note that the cleanup level
- 11 for Westgate Trailer Park was not developed
- 12 using a computer model; they were using site
- 13 specific data.
- 14 Q. What was used?
- 5 A. It appears that DHEC developed the
- 16 cleanup level for Westgate Trailer Park, it
- 17 believes, using EPA modeling data and EPA
- 18 guidance.
- 19 Q. Well, has EPA agreed with the DHEC
- 20 level, established level of 400 parts per
- 21 million?
- 22 A. EPA has stated that they have no
- 23 objection to the application of a 400 parts per
- 24 million cleanup level at Westgate Trailer Park.
- 1 Q. Have you seen a memo from EPA,
  - 2 authored by Kevin Koporec that states 400 pa
  - per million would be an appropriate level to
  - 4 clean up Westgate Trailer Park?
  - A. I have seen a memorandum from
  - Mr. Koporec. I don't recall whether or not it
  - 7 has that exact verbiage in it.
  - 8 Q. And the computer modeling that you'
  - 9 talking about, is that the IEUBK model?
  - 10 A. Yes, it is.
  - 11 Q. And it's your understanding that the
  - 12 IEUBK model was not used to determine the
  - 13 appropriate cleanup level at Westgate Trailer
  - 14 Park?
  - 15 A. It is my understanding that the model
  - 16 was never actually run, either by DHEC or by
  - 17 EPA.
  - 18 Q. What about NEIC?
  - 19 A. Or NEIC.
  - 20 Q. And did Exide ever hire an expert or
  - 21 consultant to do an IEUBK model at Westgat
  - 22 Trailer Park?
  - 23 A. We retained an expert, Advanced Ger
  - 24 Services Corporation, or AGC, to use what D

14

16

17

1 represented to us was site-specific data, and 2 run that data through the model.

- Q. In some of that site-specific data, 3
- 4 are there elevated blood lead levels in children
- 5 at Westgate Trailer Park?
- 6 A. I do not recall there being very many 7
- elevated blood lead levels, if any, but blood lead data was one of the inputs in the model,
- 9 ves.
- 10 Q. How would you determine what elevated
- 11 is?
- 12 A. I would apply the criteria published
- 13 by the United States Centers for Disease
- 14 Control, which states that an elevated blood
- 15 lead is a confirmed blood lead measurement in
- 16 excess of
- 17 10 micrograms per deciliter.
- 18 Q. And when you say confirmed, what does
- 19 that mean?
- 20 A. It means a venipuncture, analyzed by
- 21 a licensed laboratory.
- 22 Q. So you would say the finger stick
- 23 does not have any relevance?
- 24 A. No, I would say it's relevant, but it

- A. I have looked at published documents
- 2 of the United States government relating to lead
- cleanup levels to refresh my memory. 4
  - Q. Okay. Which documents?
  - A. I don't recall the citation, but the
- publication by the United States Environmental
- Protection Agency and United States Department
- of Housing and Urban Development establishing
- levels of concern at public housing projects.
- I have also looked at the June 3, 1998 proposed rule amending the existing rule, a
- rule proposed by EPA, which would have altered
- 13 those criteria.
- Q. Have you looked at any South Carolina
- 15 Department of Health and Environmental Control
- 16 documents?
- 17 A. I'm not aware that any such documents
- exist on cleanup levels for lead.
- 19 Q. And are they the lead agency to
- 20 determine what the appropriate cleanup is at the
- Westgate Trailer Park in King Acres? 21
- 22 A. Yes, they are. OND <
  - And do they have the authority to
- 24 request Exide to clean up Westgate and King

15

23

2

- 1 is not conclusive. And more importantly, that's
- what the CDC guidance itself says.
- 3 Q. Why do you think DHEC uses the finger stick method?
- 5 A. You'd have to ask DHEC why they used
- it. I know the finger stick method is used
- because it is a relatively inexpensive and
- useful screening device.
- Q. Has the NEIC finished their report
- 10 related to their determination of the source of
- 11 the lead at Westgate Trailer Park?
- 12 A. I am not aware of any final report
- 13 from NEIC or any report from NEIC that addresses
- the source of lead from Westgate Trailer Park.
- So you're not aware of the draft 15
- 16 report?
- A. I am aware of a draft report which
- 18 identifies lead levels at Westgate Trailer Park.
- 19 I do not recall that that report draws any
- conclusions about the source of the lead.
- 21 Q. Okay. Have you looked at anything to
- 22 prepare for this deposition besides the
- 23 documents that were sent to your attorney on
- 24 Wednesday?

Acres at whatever level they want?

- No, they do not.
- 3 Let me clarify my last answer. They
- certainly have the authority to require Exide to
- conduct a cleanup, assuming the levels are such
- as would require a cleanup, but they do not have
- the authority to do it at any level they choose.
- Q. Okay. And has Exide sued DHEC
- 9 related to the remediation in Westgate Trailer
- 10 Park?

ESOUIRE DEPOSITION SERVICES

- 11 A.
- 12 Q. Can you tell us what the allegations
- 13 of that lawsuit are?
- 14 A. I couldn't tell you all of the
- allegations, but the thrust of the litigation,
- which was filed in Circuit Court, was that DHEC
- was violating a Consent Agreement which it
- entered into with Exide on or about August 5th
- of this year which allowed Exide to proceed with
- 20 the cleanup of Westgate Trailer Park.
- 21 O. And how did DHEC violate it?
- 22 A. DHEC attempted to take control of the
- 23 cleanup when the Consent Agreement specifically
- 24 provides that Exide is to perform the cleanup,

```
1 Exide or its contractor.
```

- 2 Q. And do you know why DHEC did that?
- 3 A. I do not know why DHEC did that.
- Q. That was not mentioned in the
- 5 hearing?
- 6 A. DHEC stated -- well, I should state,
- 7 I was not present at the hearing. It was
- 8 reported to me -- there was information about
- 9 positions DHEC took reported to me by my
- 10 counsel, and that's the only basis of any
- 11 knowledge I have on that subject.
- 12 Q. And who represented Exide in that
- 13 hearing?
- 14 A. Elizabeth Partlow of the Ogletree law
- 15 firm.

4 date.

- 16 Q. When did DHEC first mention to Exide
- 17 that they wanted Exide to investigate possible
- 18 cleanup of Westgate Trailer Park?
- 19 A. Are you asking when did they first
- 20 request a cleanup or when did they first request
- 21 an investigation?
- 22 Q. Let's say both.
- 23 A. The request for an investigation was
- 24 sometime in late 1995 or early 1996. I don't

1 with that?

- 2 A. There are certainly a significant
- 3 number of sample points that are above 500, be
- 4 I don't recall if the average is over 500.
- 5 Q. So you don't know what percentage is 6 below 500?
- 7 A. Not -- no, I don't know the exact 8 percentage.
- 9 Q. Okay. Do you know what the
- 10 difference would have been in price, in cost, to
- 11 Exide to clean it up from 400 parts per million
- 12 to 500?

14

- 13 A. I don't know the exact number.
  - Q. Did the NEIC report say that all of
- 15 Westgate had to be cleaned up, according to
- 16 their study?
- 17 MR. GEDDIE: You mean the draft
- 18 report?
- 19 BY MR. MULLMAN:
- 20 Q. Yes, the draft report.
- 21 A. I don't believe the draft report made
- 22 any conclusions of that type.
- 23 Q. Okay. Why don't we look at that
- 24 report.

1

2

3

4

know the exact date. The request for a cleanup

- 2 of Westgate Trailer Park came late winter, early
- 3 spring of 1997. Again, I don't recall the exact
- 5 Q. And why did it take two years for
- 6 Exide to clean up the site?
- 7 A. Exide submitted a cleanup plan for a
- 8 cleanup of Westgate in the time requested by
- 9 DHEC. That report -- pardon me, that cleanup
- 10 plan was submitted in the month of July 1997.
- 11 DHEC had insisted that the cleanup level be 400
- 12 parts per million, and Exide attempted to
- 13 determine what basis there was for that level.
- 14 Exide spent the bulk of that two-year period
- 15 attempting to obtain an answer to that question.
- 16 Q. Well, did Exide ever offer to clean
- 17 it up at a different level?
- 18 A. Yes, repeatedly.
- 19 Q. Okay. What was that level?
- 20 A. 500 parts per million.
- 21 Q. Okay. What's the average level of
- 22 lead in soil at Westgate Trailer Park?
- 23 A. I do not recall.
- 24 Q. Okay. It's over 500; would you agree

MR. GEDDIE: Is that in this

stack?

MR. MULLMAN: Yeah, it should be (Whereupon, Exhibit 2 was marked)

5 for identification.)

6 BY MR. MULLMAN:

- 7 Q. Before Wednesday of this week, had
- you ever seen this report?
- 9 A. The document which has been marke
- 10 Exhibit 2 consists of a cover memorandum from
- 1 Diana Love, Esquire, Director NEIC, to Bruc
- 12 Miller at EPA Region 4, then has what appea
- 13 be a number of attachments. I believe that th
- 14 only document I have seen before is the first
- 15 attachment, which is the first four pages after
- 16 the blue sheet of paper in Exhibit 2.
- 17 Q. Okay. Have you had any conversation
- 18 with anybody at the NEIC related to this repo
- 19 A. No.
- 20 Q. Have you had any conversations witl
- 21 anybody at the EPA related to this report?
- 22 A. Yes.
- 23 Q. Okay. Who?
- 24 A. Reuben Bussey, Esquire, Assistant

2 5

1 Regional Counsel, EPA Region 4, and Billy

- 2 Bright, who, I believe, is with the enforcement
- 3 section at EPA Region 4.
- 4 Q. In the introduction, which comes
- 5 right after the top page --
- 6 A. This is on the second sheet after the
- 7 blue sheet?
- 8 Q. Yes.
- 9 A. Okay.
- 10 Q. In the introduction, it says the
- 11 objective was to identify the source of lead
- 12 contamination found in the trailer park soil,
- 13 correct?
- 14 A. It does say that, yes.
- 15 Q. Has Exide ever hired an expert or
- 16 consultant to figure out the source of the lead
- 17 at the trailer park?
- 18 A. No.
- 19 Q. Have they ever done that to figure
- 20 out the source of the lead in King Acres?
- 21 A. No.
- Q. Why not?
- A. We haven't seen any reason to do that
- 24 analysis.

- 1 that it's 25 to 50 parts per million?
- 2 A. I would have to consult with an
- 3 expert to know whether that's a valid number or 4 not.
- 5 Q. Okay. Now, Exide owns several homes
- 6 in King Acres, correct?
- A. Yes, it does.
- Q. Have you determined if any of those
- 9 homes have lead paint in them?
- 10 A. Not to my knowledge.
- 11 Q. So would you agree that lead paint
- 12 probably is not a source of the lead in the soil
- 13 at King Acres?
- 14 A. I would not agree with that, because
- 15 I don't know if any analysis has been made to
- 16 know whether lead paint is a contributing source
- 17 or not.

8

- 18 Q. And you haven't tried to determine
- 19 that?
- 20 A. I have not, no.
- 21 Q. Let's go to the next page, under
- 22 Results. Right in the middle, it says "For all
- 23 80 samples collected, lead concentrations
- 24 average 812 micrograms per kilogram and range

23

- 1 Q. Okay. Does Exide know the source of
- 2 the lead?
- 3 A. Exide suspects that it is a
- 4 significant contributor to lead levels in both
- 5 King Acres and Westgate.
- 6 Q. Do they know of other contributors?
- 7 A. We know that there are numerous
- 8 anthropogenic sources of lead anywhere in the
- 9 United States, as well as natural sources of
- 10 lead. Lead is a very pervasive compound in the
- 11 environment. And so any of those sources,
- 12 anthropogenic and natural, could contribute to
- 13 lead levels, both at King Acres and at Westgate.
- 14 Q. Do you know what the background level
- 15 of land in the arit in Const. Cont. Continuing
- 15 of lead in the soil in Greer, South Carolina is?
- 16 A. No.
- 17 Q. Had you ever asked any of your
- 18 experts or consultants to determine what the
- 19 background level of lead is?
- 20 A. I have not.
- 21 Q. Have you mentioned to DHEC or EPA
- 22 that you would like to know that information?
- 23 A. I have not, no.
- 24 Q. Would it surprise you to find out

- 1 from 287 to 2,760 micrograms per kilogram with a
- 2 relative standard deviation of 63 percent."
- 3 That's what it says; correct?
  - A. That is what it says.
- 5 Q. Okay. So would you agree that the
- 6 average is 812?

- A. Assuming the analysis is
- 8 representative and was done properly, yes.
- 9 Q. So why does it matter, if Exide is
- 10 going to clean it up, if it's 400 or 500 parts
- 11 per million?
- A. Exide is aware of cleanup levels
- 13 which are in use throughout the United States.
- 14 The 400 parts per million cleanup level is lower
- 15 than most cleanup levels used in residential
- 16 areas. And while we do not, and have never
- 17 taken the position that it is never appropriate
- 18 to clean to 400, we believe that before one
- 19 departs from the norm, there ought to be a
- 20 scientific basis for doing so.
- 21 Q. Okay. But they determined the
- 22 cleanup level by site-specific factors, correct?
- 23 A. At Westgate?
- 24 Q. Yes.

- A. No, they did not.
- They didn't? Do they do that --
  - I'm sorry. "They" meaning DHEC?
- O. Yes.

1

3

- They did not so determine. They did
- not use that method to determine the cleanup
- level at Westgate.
- 8 Q. Well, is one of the reasons why they
- wanted a cleanup level so low, because children
- 10 had had high lead levels in Westgate Trailer
- 11 Park?
- 12 MR. GEDDIE: Counsel, he can't
- 13 speak for DHEC.
- BY MR. MULLMAN:
- Q. Well, have you seen any documents 15
- 16 that evidence the reason why DHEC wanted you to
- clean up to the level of 400 was because
- children had high lead levels?
- 19 A. I have seen no such document.
- 20 Q. Okay. Is Exide aware that children
- 21 have had elevated lead levels at Westgate
- 22 Trailer Park?
- A. Exide has seen data -- let me
- 24 rephrase that. I have seen data which indicates

- Westgate Trailer Park. 1
- 2 Q. Why don't we just talk about the
- Greer facility, then. That might be easier.
- 4 I'm sorry. Again, I didn't mean to 5 cut you off.
- No problem. 6 Ο.
- 7 There have been 21 litigation mat
- filed making the allegations you described
- the vicinity of the Greer complex. 10
  - Q. Related to children?
- 11 Allegations brought on behalf of A. 12 children, yes.
- 13 Q. How many property owners in Ki 14 Acres have complained or alleged of lead
- contamination on their property? 15
- 16 When you say "complained," do y 17 mean have filed complaints in court?
- 18 No. I mean complained to Exide. 19 either through DHEC or call-in to Exide?
- 20 At what point in time?
- 21 Q. Since they took over the facility i 22 1987.
- 23 I don't know how many people ha 24 called in the 12 years since then.
- 1 that less than five children have elevated blood
- 2 leads defined as I stated earlier, meaning that
- 3 the -- there was some analysis which indicates
- 4 that their blood lead exceeded ten micrograms
- 5 per deciliter. It is my recollection, however,
- 6 that all of those analyses were by finger prick,
- and under the CDC guidance, a finger prick
- 8 evidencing a blood lead greater than ten
- micrograms per deciliter should be followed up
- 10 with a venipuncture and analysis. I do not
- 11 believe that any of the samples that I have
- 12 seen, blood lead samples that I have seen, were
- 13 venipuncture analyses.
- 14 Q. Is Exide involved in litigation which
- 15 includes children from the Westgate Trailer
- 16 Park?
- 17 A. Yes.
- 18 Q. And how many lawsuits have been
- 19 initiated against Exide from people alleging
- 20 that their children had been exposed to amounts
- 21 of lead-causing injury?
- 22 A. Where?
- 23 At Westgate Trailer Park.
- 24 I don't know how many are from

- Okay. Is it more than a dozen?
- 2 A. I can't recall more than a dozen
- 3 names, no.

I

- 4 Q. Okay. Well, did Mr. Byars ever
- complain, Mr. Bobby Byars? 5
  - A. I believe he did, yes.
- 7 Q. Okay. Did Mr. Poole ever complain.
- 8 Thomas Poole?
- The name is familiar, but I don't
- 10 recall whether he complained about property
- 11 damage or not.
- 12 Q. Okay. What about Mrs. Sylvia Pitts'
- 13 A. Again, the name is familiar, but I
- 14 don't recall whether Ms. Pitts complained ab-
- 15 property damage or not.
- 16 Q. Okay. And you don't have any name
- 17 that you can specifically recall? I don't want
- 18 to go through the whole list.
- 19 A. I can recall Ms. Shirley Poteat
- 20 complained about property damage. Obviou
- 21 the plaintiff in this action has complained
- 22 about property damage. And Mr. and Mrs. 1
- and Mr. and Mrs. Hight, H-I-G-H-T.
- Q. Okay. And Farrell Campbell?

32

33

A. Again, I know the name, but I don't

2 know whether he complained of property damage.

Q. Well, I won't go through the whole 4 list then.

Now, we have sent Exide discovery forelated to, I believe, the 17 lots that Exide www. owns in King Acres. Have you made a diligent

8 search to find the deeds to find the names of

9 the people that Exide purchased them from?

I'm not done with that. I'm sorry.

11 A. I'm sorry. I have made a diligent

12 search to identify documents which were called

13 for by the discovery. I don't recall

14 specifically what the discovery sought.

15 Q. Okay. One part of the discovery16 sought the purchase -- I mean the sellers' name

17 to Exide, and that was not included, and I

18 just -- I would imagine that the deeds would

19 have that. So I'm wondering if you looked for

20 the deeds, if you found the deeds, if we could

21 get the names of the sellers.

22 A. My recollection is that we do not

have the deeds for the vast majority of theseproperties.

23

1 field.

4

2 Q. Okay. Well, can you read the next

3 sentence, then?

A. The sentence states, quote,

5 Therefore, based on a threshold level of

6 400 milligrams per kilogram, the entire area of

7 the trailer park must be remediated with the

8 possible exception of the northeast area, which

9 has previously undergone remediation activity.

10 Close quote.

11 Q. The previous remediation activity;

12 has EPA determined that Exide is the responsible

3 party for that, the cost of that remediation?

14 A. EPA has asserted that Exide is a

15 responsible party for those costs, yes.

16 Q. And what are the other responsible 17 parties?

18 A. I believe they've identified the

19 property owner, Mr. Maxwell. I don't know who,

20 if anyone else, they have identified.

21 Q. Okay. Is it C.R. Maxwell or Bruce

22 Reeves that owns Westgate Trailer Park?

A. My understanding is that Mr. Maxwell

24 owns it, but I haven't done a deed search, and

3 1

Q. Well, have you sold those properties

2 to anybody since you purchased them?

3 A. No.

1

4 Q. Do you rent those properties to

5 anybody?

6 A. We rent one property.

Q. Going back to the NEIC report, the

next page, which would be, I guess, the fourth

9 page. You're right on it. In the third line it

10 says, "In other words, variations in lead

11 concentrations are too great over short

12 distances, less than a meter, to distinguish

13 areas of soil with lead concentrations below

14 400 micrograms per kilogram with any reasonable

15 confidence." It says that, correct?

16 A. Actually it says 400 milligram per

17 kilograms, but otherwise, yes.

18 Q. That's the same as parts per million,

19 correct?

20 A. Yes. That's my understanding, yes.

21 Q. So what does that sentence mean to

22 you?

23 A. I'm not sure I can add anything to

24 what's in the text. I'm not an expert in this

1 no one at Exide, to my knowledge, has requested

2 one, so I can't add any more to that.

3 Q. Okay. The Consent Order that -- I

4 think it was a '96 Consent Order -- that

5 determined the remediation activity at Westgate

6 Trailer Park, did that say how many inches down

7 cleanup should occur?

8 A. The 1996 Consent Agreement did not

9 address remediation of Westgate Trailer Park or

10 any other area, except to state that if it was

11 determined that cleanup was required, Exide

12 would agree to perform that cleanup.

13 That was a position that DHEC itself

14 took with respect to the Westgate Trailer Park,

15 which is why they insisted that a new Consent

16 Order, which was the Consent Order entered into

17 on or about August 5th of this year, be entered

8 into for that cleanup.

19 Q. Well, how many inches down did Exide

20 clean it up?

21 A. Approximately three inches was

22 removed at Westgate Trailer Park.

23 Q. And in the past, has DHEC or EPA

24 requested Exide clean it up to six or nine

3 4

1 inches?

2 A. I'm not aware of any requests for

3 cleanup to nine inches by anyone. DHEC did

4 previously propose a cleanup to a six-inch 5 depth.

6 Q. Okay. Well, why did they compromise 7 and go down to three?

8 MR. GEDDIE: How would he know 9 that, Counsel? He can't speak for DHEC.

MR. MULLMAN: Well, he might have been been involved in the compromise.

12 BY MR. MULLMAN:

13 Q. So were you aware of the reasons why

14 DHEC went from six inches to three inches?

15 A. I don't know what DHEC found to be

16 persuasive. Obviously, you'd need to ask them

17 that question. Exide did make available to DHEC

18 its consultant, AGC, who spoke with technical

19 people at DHEC concerning the scope of the work

20 plan.

21 Q. Are you aware of any kind of

22 agreement between Exide and DHEC or EPA that

23 states that DHEC would allow Exide to clean it

24 up to three inches if Exide agreed to clean it

MR. MULLMAN: Well, we'll just

2 skip that then. Don't worry about it.

3 BY MR. MULLMAN:

4 Q. Do you know when Exide plans on

5 cleaning up the soil in King Acres?

6 A. As soon as we have an approved

7 cleanup level and an approved work plan fro 8 DHEC.

9 Q. Okay. And has DHEC indicated to 10 that they want the cleanup to be 400 parts parts.

11 million?

12 A. At King Acres?

13 Q. Yeah, King Acres?

14 A. No.

15 Q. Does Exide use the F-A-S-T Systen

16 FAST System, with the Phoenix software?

17 A. I don't know who developed -- who

18 software is in use, but Exide does use a syst 19 called the FAST system.

20 Q. And what does that system do?

21 A. I don't know very much about the

22 system, except that it is a financial reporting

23 system used by our branch system.

24 Q. Have you read the depositions in

up to 400 parts per million instead of arguing

2 about the 500, so there was a deal made? Are

3 you aware of that?
4 MR GEI

MR. GEDDIE: I object to the term "deal."

THE WITNESS: And I'm not aware that there was a deal, as you've described

8 it.

5

BY MR. MULLMAN:

10 Q. Okay.

11 A. The parties deliberately left the

12 contours of the work plan to technical experts

13 talking to one another, not by or through

14 lawyers.

15 Q. In the NEIC materials, there's an

16 April 14, 1998 letter to Mr. Lebo from Scott

17 Wilson.

18 A. I'm sorry. Let me try to find that.

19 Q. Okay.

20 A. April 14, 1998?

21 O. Yeah, 1998. It should be after these

22 notes right here.

MR. GEDDIE: We don't have Page 2

24 of it.

1 Michael Smith's case?

2 A. I have perused some of them, but

3 certainly not all of them.

4 Q. And were you involved in the

5 production of documents in the Smith case?

6 A. Yes, I was.

7 Q. Okay. And are you aware of any

8 documents being altered, destroyed or concealed

9 A. No.

10 O. You mentioned before that there are

11 other possible sources for the lead in Westgate

12 in King Acres, correct?

13 A. That's correct.

14 Q. Okay. Does Exide have any evidence

15 that the lead in the trailer park or the

16 subdivision came from other sources besides

17 Exide?

18 A. I recall that there are analyses of

19 soil samples at Westgate which show that the

20 lead levels increased significantly right along

21 the edge of Old Buncombe Road, B-U-N-C-O-N

22 I believe, which would suggest that automobile

23 exhaust associated with the burning of leaded

24 gasoline would be a contributing source.

38

- 1 Q. Well, could another possible reason
- 2 be the transport of lead oxide to and from
- 3 Exide?

Ŷ

- 4 A. It would depend on what route the
- 5 trucks took to get there. But in any event, I
- 6 would have to rely upon experts to answer that
- 7 question.
- 8 Q. Okay. Do you know who at Exide made
- 9 the decision to purchase the property in King
- 10 Acres?
- 11 A. Which property?
- 12 Q. Any of the property owned by Exide?
- 13 A. I made the decision to acquire
- 14 Ms. Poteat's property as part of a settlement in
- 15 litigation brought by your firm. I do not know
- 16 who made the decision to purchase the other
- 17 properties which Exide currently owns at King
- 18 Acres.
- 19 Q. Have you ever been to the plant?
- 20 A. At Greer?
- 21 Q. Yes.
- 22 A. Yes.
- 23 Q. While it was operating?
- 24 A. Yes.

- 1 Q. Well, what's the name of that
  - 2 department now that's responsible for the same

40

41

- 3 things that the Environmental Resource
- 4 Department did?
  - A. There are two departments that cover
- 6 the responsibility that was formerly that of the
- 7 Environmental Resources Department. The
- 8 Regulatory Affairs Department addresses
- 9 liabilities at third-party sites and closed
- 0 sites. The Environmental Operations Department
- 11 addresses environmental compliance issues,
- 12 environmental health and safety compliance
- 13 issues at our operating facilities in North
- 14 America.
- 15 Q. Okay. Who is head of the
- 16 environmental operations?
- 17 A. Neal Lebo.
- 18 Q. And who is head of the Regulatory
- 19 Affairs?
- 20 A. I am.
- 21 Q. Okay. Does Matt Love still work for
- 22 Exide?
- 23 A. Yes, he does.
- 24 O. Jeff Lead?

39

- 1 Q. How many times?
- 2 A. While it was operating, two or three
- 3 times.
- 4 Q. Did you ever see clouds of smoke,
- 5 lead dust in the air?
- 6 A. Not that I recall, no.
- 7 Q. Who is your immediate supervisor?
- 8 A. Today?
- 9 Q. Uh-huh.
- 10 A. John Van Zile. Two words. V-A-N
- 11 Z-I-L-E.
- 12 Q. And what about back in 1995?
- 13 A. In 1995, my direct supervisor was
- 14 John Baranski, B-A-R-A-N-S-K-I.
- 15 Q. Could you list the members of the
- 16 corporate Environmental Resource Department that
- 17 had participated in, or were involved in any of
- 18 the work done at Westgate or King Acres?
- 19 A. The Environmental Resources
- 20 Department does not exist today, so I assume
- 21 you're talking prior to the restructuring of
- 22 that department?
- 23 Q. When was that restructuring done?
- 24 A. August 1997.

1 A. No.

- 2 Q. Is he still a consultant?
- 3 A. No.
- 4 Q. Okay. What about Rick Roganwald?
  - A. Riengenwald?
- 6 Q. Riengenwald.
- 7 A. He is no longer employed by Exide.
- 8 Q. What about Despina Ferrante
- 9 Ioannidas? I-O-A-N-I-D-A-S, I think?
- 10 A. Ionaiddas. That's as close as I
- 11 could come to spelling it. Ms. Ionaiddas is no
- 12 longer employed by Exide Corporation.
- 12 longer employed by Exide corporation.
- Did you have a second name you asked about?
- 15 Q. That was Despina Ferrante. That was
- 16 her maiden name, I believe?
- 17 A. I believe it was, and she is no
- 18 longer employed by Exide.
- 19 Q. What about Robin Daub?
- 20 A. Mrs. Daub is still employed by Exide.
- 21 Q. What about Mr. Goberni?
- 22 A. I don't know who Mr. Goberni is.
- 23 Q. Okay. Can you list the consultants
- 24 used by Exide at Greer?



A. Exide currently uses Advanced Geo

2 Services Corporation in connection with the King

3 Acres investigation and preparation of work

4 plan. Exide also uses The Fletcher Group for

5 on-site work, meaning the former plant site.

6 Q. Has DHEC requested that Exide clean 7 up on-site?

8 A. DHEC has indicated that a cleanup

9 will be required, but they have not asked for

10 that cleanup again.

11 Q. And do you know the highest soil

12 sample result on-site?

13 A. No.

1

14 Q. I think I might have asked this, but

15 let me just ask again. Exide has never asked a

16 consultant or expert to conduct an IEUBK model

17 at Westgate or King Acres?

18 A. Exide did ask Advanced Geo Services

19 Corporation to run the IEUBK model using data

20 that DHEC provided, which it indicated was

21 site-specific. And Exide has retained Advanced

22 Geo Services Corporation to run the data which

23 has been or is being collected in King Acres

24 through the same model.

1 same firm.

5

9

22

1

4

7

43

Q. How did Exide attempt to measure or

3 determine the amount of fugitive emissions

4 escaping the plant?

A. I don't know.

6 Q. Do you know if they ever did attempt

7 to measure the fugitive emissions from the

8 plant?

A. I don't know.

ANC

10 Q. Are you aware that there's air

11 monitors set up by Exide in King Acres in the

12 trailer park?

13 A. I know that Exide has high-volume air

14 samplers, as does DHEC, in the area. Where

15 they're located, I'm not entirely certain.

6 Q. Okay. And were they established

17 pursuant to EPA or DHEC protocol?

18 A. I'm not aware of DHEC having any

19 protocol for the siting or setting of air

20 samplers. The Exide monitoring devices were

21 situated consistent with EPA guidance.

Q. Are there any quality control

23 procedures put in place for those air monitors'

24 A. I don't know.

1 Q. Which homes in King Acres are they

2 sampling, do you know?

A. I do not know.

3

4 Q. Okay. Besides soil sampling, what

5 else has The Fletcher Group done?

A. The Fletcher Group also has conducted

7 groundwater investigations over time. I don't

8 recall what other work they have done for Exide.

9 Q. Has RBR, Inc., Risk Based Remedies,

10 Inc., have they done any work in the Greer

11 facility or around the Greer facility?

12 A. I don't think so, no.

13 Q. Have you read the investigation

14 report related to allegations of blood switching

15 among employees?

16 A. I have read a report of outside

17 counsel that investigated certain allegations

18 concerning the blood-sampling program at Greer.

19 Q. And who was that outside counsel?

20 A. Outside counsel was Jack Dodds, with

21 the law firm of Morgan, Lewis & Bockius. Edward

22 S.G. Dennis of the same firm may also have been

23 involved in that, but I know Mr. Dodds was, as

24 was Dennis Morikawa, M-O-R-I-K-A-W-A, at the

Q. Has DHEC or EPA ever complained

2 Exide about the integrity of the results of

3 those air monitors?

A. Not that I recall.

5 Q. Have they ever complained about the

6 integrity of the results of the soil samples?

A. Not that I recall.

8 Q. Do the soil samples by DHEC match

with The Fletcher Group for the same location

10 A. I'm not aware of any significant

11 disparity, if any.

12 Q. Are you aware of a shareholder or

13 investors' meeting in Bristol, Tennessee in N

14 of 1995?

15 A. No.

16 Q. Have you conducted a diligent searc

17 for the videotape of that meeting?

18 A. I have conducted a diligent search

19 for a videotape, as your firm has represented

20 our prior counsel that such a videotape exist

21 but I have not been able to identify either the

22 a meeting took place in or about the time

23 described, a meeting of shareholders occurre

24 or about the time described, or that a videota

1 of such a meeting exists.

- Q. Okay. Have you asked Arthur Hawkins
- 3 or Alan Gauthier if they were at that meeting?
  - A. I asked Mr. Hawkins' assistant to
- 5 review his calendar for that time frame to
- 6 determine whether a shareholders' meeting was
- 7 held in or about that time.
- 8 I don't recall whether I checked with
- 9 Mr. Gauthier's assistant as well.
- 10 Q. Is it Gauther?
- 11 A. Gauthier, is how he pronounces it.
- 12 Q. Who is your main contact with DHEC?
- 13 A. On what matter?
- 14 Q. On the matter of the cleanup at
- 15 Westgate Trailer Park or King Acres?
- 16 A. Our main contact has been Scott
- 17 Wilson.

4

- 18 Q. Who is the attorney for DHEC?
- 19 A. Jessica King, Esquire.
- 20 Q. Have you talked to Dr. Marino about
- 21 the blood lead levels in children at Westgate
- 22 Trailer Park and in King Acres subdivision?
- 23 A. We have never been able to obtain a
- 24 meeting with Dr. Marino.

1 time, yes.

7

- 2 Q. And have they been disclosed to
- 3 plaintiff's counsel in litigation?
- 4 A. Every one of them has been turned
- 5 over to plaintiff's counsel in the Smith
- 6 litigation.
  - Q. Okay. Have any of Exide's
- 8 consultants informed Exide that Exide is not the
- 9 source of the lead in Westgate Trailer Park or
- 10 King Acres?
- 11 A. No.
- 12 Q. Do you know what the soil lead levels
- 13 in the Byars' house beyond Bent Creek is, 103
- 14 Bent Creek Drive?
- 15 A. I don't recall the exact level, no.
- 16 Q. Well, do you know if it's over
- 17 500 parts per million?
- 18 A. I believe -- I would need to look at
- 19 the consultant's report to be certain, but my
- 20 recollection is that it is below 500 parts per
- 21 million.
- 22 Q. Okay. Which consultant's report are
- 23 you relying on?
- 24 A. One of the Fletcher Group reports,

47

3

13

15

- 1 Q. Are you aware of any children in King
- 2 Acres that have alleged lead exposure?
- 3 A. Several of the children on whose
- 4 behalf pending litigation has been brought
- 5 allege that they have been exposed to lead.
- 6 Those complaints do not allege whether the
- 7 exposure exceeds the CDC criteria. I should say
- 8 whether the exposure, if any, exceeds the CDC
- 9 criteria.
- 10 Q. Has Exide paid for the costs of
- 11 remediating Westgate Trailer Park in 1994 to
- 12 EPA?
- 13 A. I believe the cleanup by EPA was
- 14 before 1984, but Exide has reached a settlement
- 15 with EPA on its claim for past costs.
- 16 Q. How many Consent Orders has Exide
- 17 entered into with DHEC related to their
- 18 operation at the Greer facility?
- 19 A. I don't know the number.
- 20 Q. Okay. Is it more than ten?
- 21 A. I don't know.
- 22 Q. Do you receive e-mails from EPA or
- 23 DHEC?
- 24 A. I have received a few e-mails over

- 1 which summarizes all of the sampling which has
- 2 been done in King Acres.
  - Q. Okay.
- 4 A. That's the report I would need to
- 5 look at, one of those reports.
- 6 Q. Well, have you looked at Jack
- 7 Fanning's report?
- 8 A. I'm sorry, who?
- 9 Q. Jack Fanning.
- 10 A. I don't recognize that name.
- 11 Q. Okay. Let me show it to you. It
- 12 should be in this pile.
  - MR. GEDDIE: That's the report
- 14 that was done for your law firm?
  - MR. MULLMAN: Yes.
- MR. GEDDIE: General Engineering
- 17 Labs.
- 18 (Whereupon, Exhibit 3 was marked
- 19 for identification.)
- 20 BY MR. MULLMAN:
- 21 Q. Have you given this report to The
- 22 Fletcher Group or any of your other consultants?
- 3 A. Prior to yesterday, I had never seen
- 24 this report.

- 1 Q. So you didn't look at this during the 2 Smith litigation?
- 3 A. Not that I recall.
- 4 Q. Okay.
- 5 A. I note that the date on the signature
- 6 page is January 26, 1999. I don't recall the
- 7 date of the settlement in the Smith litigation.
- 8 Q. Well, let's go to Table 1, Soil Test 9 Results.
- 10 A. Is that at the end of the text?
- 11 Q. It's kind of about ten into it.
- 12 A. I see that page.
- 13 Q. Okay. Do you see the results for
- 14 103 Bent Creek Drive?
- 15 A. Yes.
- 16 Q. Do they range from 104 to 2,690 parts
- 17 per million?
- 18 A. That is what Table 1 of this exhibit
- 19 says, yes.
- 20 Q. Okay. Going to the next page. This
- 21 is Wipe Test Results from inside the attic of
- 22 103 Bent Creek Drive, and it shows, and correct
- 23 me if I'm wrong, 944 parts per million in
- 24 Mr. Byars' house, correct?

- 1 lead levels in its soil that exceed the cleanup
- 2 level that DHEC has established at Westgate
- 3 Trailer Park?
  - A. If the data in the General
- 5 Engineering report is correct, the answer is 6 yes.
- 7 Q. Okay. And you're not aware of any
- 8 report by any consultant such as Rogers &
- 9 Calicott, Paul C. Rizzo & Associates, The
- 10 Fletcher Group or Jeff Lead, that discusses soil
- 11 results at Mr. Byars' property more than 400
- 12 parts per million?
- A. Not that I recall sitting here right
- 14 now, but I would need to look at the Fletcher
- 15 Group report, which summarizes all prior
- 16 sampling data, soil sampling data in the King
- 17 Acres area to be certain.
  - Q. Are you aware of any complaints by
- 19 Mr. Bobby Byars about surface runoff coming f
- 20 Exide facility onto his property between 1987
- 21 and 1994?
- 22 A. I have seen documents evidencing
- 23 Mr. Byars' concerns, as you describe them, in
- 24 the late '80s and early '90s. I don't recall
- A. That's what Table 2 states, yes.

- Q. Okay. Do you have any opinion about
- 3 why the lead dust results inside the home would
- 4 be so high?
- 5 A. First, I would need an expert to tell
- 6 me whether the analysis is valid; but assuming
- 7 it is, I would need an expert to answer that
- 8 question.
- 9 Q. Okay. So you don't have an opinion?
- 10 A. I have no opinion.
- 11 Q. Okay. Would you agree that
- 12 Mr. Byars' house has higher lead readings in the
- 13 soil than what DHEC wants cleaned up at Westgate
- 14 Trailer Park?
- 15 A. I would not, because DHEC has not
- 16 told us what the cleanup level is at Westgate
- 17 Trailer Park.
- 18 Q. I thought they determined that they
- 19 wanted 400 parts per million?
- 20 A. I'm sorry. I was thinking King Acres
- 21 and Westgate Trailer Park.
- 22 Could you either restate the question
- 23 or can the court reporter read it back?
- 24 Q. Yeah. Does Mr. Byars' property have

- 1 the exact dates of those correspondence.
- Q. Okay. When you say Mr. Byars, that 3 not the Mr. Byars that's involved in this
- 4 lawsuit, though, correct?
- 5 A. The correspondence I have seen, I
- believe, is from Bobby Byars, but I'd need to
- 7 look at that correspondence to be certain.
- 8 Q. Okay. Let me show you this newspa 9 article.
- 10 A. Do you want to mark this, just so
- 11 it's clear for the record?
- 12 Q. Yes.
- 13 (Whereupon, Exhibit 4 was marked
- 14 for identification.)
- 15 BY MR. MULLMAN:
- 6 Q. This is an article that came from the
- 17 Greenville News, September 20, 1999, and i
- 18 about the attorney, Gary Poliakoff, writing t
- 19 letter to DHEC. It has a quote in here from
- 20 you, Mr. Levine, saying the letter is both
- 20 you, Mar. Devine, saying the letter is com
- 21 outrageous and incorrect. Do you remembe
- 22 telling the reporter that?
- 23 A. Yes, but I don't recall whether the
- 24 quote was given to the reporter for the

7

11

12

13

14

- 1 Greenville News or the Spartanaburg Herald.
  - Q. Okay. Fair enough.
- 3 But the quote is accurate.
  - Okay. Now, what part of that letter
- 5 is outrageous and incorrect? And here's the

letter for you. 6

MR. MULLMAN: We'll mark that

8 as --

2

4

7

9

10

11

12

13

14

15

16

17

18

19

20

Actually, why don't we just make the whole thing 4. That might be easier. These are the exhibits that went along with the letter.

THE WITNESS: You're referencing a letter from Poole & Associates. There's a handwritten date on the top. September 3. 1999. At the bottom of the first page it says Page 1 of 18, and then there's a series of documents bound by a rubber band. As I understand it, for the record, that

- 21 BY MR. MULLMAN:
- O. Yes. 22
- 23 What is both outrageous and incorrect

will be now part of Exhibit 4?

24 about the letter from Mr. Poliakoff, is that the

56 1 MR. MULLMAN: I'm asking him what

- 2 he thinks is so outrageous and incorrect
- 3 about our letter. I don't see anything
- 4 wrong with that. He made the statement. 5
  - I'm asking him to back it up.

MR. GEDDIE: All right. He just backed it up.

8 MR. MULLMAN: Well, what's 9 incorrect in this letter? I mean, all the 10 documents --

MR. GEDDIE: Do you want him to read an 18-page letter and tell you what he disagrees with in a letter from your law partner to the newspaper or to DHEC?

- 15 BY MR. MULLMAN:
- 16 O. Yes.
- 17 A. Sitting here right now, I can't give
- 18 you every single factual inaccuracy in this
- 18-page letter; however, I do recall at least
- some of the inaccuracies. Specifically where
- 21 they occur in the letter would take me a few
- 22 minutes to locate, but let me take that time to
- 23 do that.
- 24 The letter on Page 3 in boldface

- 1 implication that Exide Corporation set out in
- 2 any deliberate way to harm anyone, adult or
- child, whether working at the facility in Greer
- when it was in operation or living in the
- vicinity of that facility. 5
- 6 O. And where in the letter does it say 7 that?
- 8 The last sentence of the first
- paragraph states, quote, Our review indicates two decades of willful abuse by Exide and its
- predecessor, and then continues on for the
- remainder of the sentence. 12

13 I understand the term "willful abuse" 14 in the context of the other allegations made in 15 the letter to imply what I stated in my previous 16 answer.

- 17 Q. Okay. So none of the factual 18 information, you would say, is incorrect?
- 19 No. I would say the factual
- 20 information is incorrect, at least some of it.
- 21 Q. Okay. Well, which ones?
- 22 MR. GEDDIE: Counsel, I mean,
- 23 what are we doing here? This is -- why
- 24 don't you refer him to what's --

1 says, boldface in all capitals, says, "Why was

- there virtually no enforcement by DHEC and no
- attempt to remediate during the above period?
- Pardon me. During the above decade?"
- 5 I'm not sure if that's the section of
- the letter, but there's a section of the letter
- where the implication is that there was no
- effort to address impacted groundwater in the vicinity of the facility until well past 1987,
- 10 when, in fact, the first recovery wells were
- 11 installed -- pardon me, the first monitoring
- 12 wells were installed in the late '70s or early
- '80s under DHEC requirements and supervision,
- 14 and the groundwater recovery process began in
- 15 the early 1980s. That is one inaccuracy that
- 16 comes to mind in this letter.
- 17 Q. How did you find out about this
- 18 letter to DHEC?
- 19 A. It was provided to me by a reporter
- 20 for the Spartanburg Herald, who called and asked
- 21 me for my response to it.
- 22 Q. And did she include for you the
- 23 attachments?
- She did not. As I said, she was

5.7

19

58

- 1 calling for a response to a letter that we were
- 2 not copied on and was kind enough to at least
- 3 give it to us before asking for a response.
- Q. So you didn't have the exhibits with
- 5 you, the attachments?
- 6 A. At that time, no, and nothing I have
- 7 seen since you provided the attachment to
- 8 Mr. Geddie in the last week -- I had the chance
- 9 to look at them yesterday. Nothing in those
- 10 attachments would change my analysis of the
- 11 letter.
- 12 Again, I can't, sitting here right
- 13 now, tell you every single inaccuracy. I do
- 14 recall detailing them to the reporter at that
- 15 time.

1

2

6

- 16 Q. Oh, so you told the reporter what you
- 17 thought was outrageous and incorrect?
- 18 A. Well, I've already described to you
- 19 what I think was outrageous and incorrect. I
- 20 also gave her four or five specific examples
- 21 where there were factual errors of the type that
- 22 I just described relating to the commencement of
- 23 the groundwater treatment system.
- 24 Q. Okay. We can move on then.

- 1 no. That would require an expert.
- Q. Do you know if Carl Howell was fa
- 3 or did he quit the employment of Exide?
- 4 A. Mr. Howell resigned.
- 5 Q. Voluntarily or --
  - A. Yes, voluntarily.
- 7 Q. Who are the other members, beside
- Neal Lebo, of the Environmental Operation
- 9 Department?
- 10 A. Mr. Fred Ganster and our new safe 11 manager, who also reports to Mr. Lebo. H:
- 12 first name is Kaiya, K-A-I-Y-A, I believe.
- 13 don't recall his last name. In addition, the
- 14 Industrial Health Laboratory in Philadelphi
- 15 reports to Mr. Lebo.
- 16 Q. And who runs that, Bill Pallies,
- 17 P-A-L-L-I-E-S?
- 18 A. Yes, correct.
  - O. And is Bill Frear still there?
- 20 A. Mr. Frear is still employed by Exic
- 21 Corporation, yes.
- 22 Q. Okay. Where is he employed?
- 23 A. In Reading, Pennsylvania.
- 24 O. As what?
- MR. MULLMAN: Actually, why don't
- 3 MR. GEDDIE: All right.
- 4 (Whereupon, a recess was taken.)
- 5 BY MR. MULLMAN:

we take a break.

- Q. Has Exide offered to clean up King
- 7 Acres to 500 parts per million?
- 8 A. We have, in the past, made that offer 9 to DHEC, yes.
- 10 Q. Okay. And what was DHEC's response?
- 11 A. That they did not want to address
- 12 King Acres until Westgate was taken care of.
- 13 Q. Now, Exide owns 17 lots in King
- 14 Acres?
- 15 A. I know we own more than ten lots. I
- 16 don't know the exact number.
- 17 Q. Now, Exide can voluntarily go and
- 18 clean up those lots to whatever level they want,
- 19 correct?
- 20 A. It could.
- 21 Q. Do you have an opinion as to what
- 22 level of lead in soil is safe for children to
- 23 reside or play in?
- 24 A. I do not have an opinion as to that,

- A. Director of Global Risk Management.
- 2 Q. Global Risk Management? What is
- 3 that?

- 4 A. Mr. Frear is responsible for managing
- 5 all of the company's insurance programs, such
- 6 its workers' compensation, automobile liabilit
- 7 general liability, property coverage, and in
- 8 that function, monitors fire safety, protection
- 9 of plant property and equipment, and workers
- 10 compensation related issues, as well as some
- 1 product liability matters.
- 12 Q. Do you know the amount of money E
- 13 has paid the State of South Carolina for fines
- 14 related to environmental operations or worke
- 15 comp violations, OSHA violations, things of
- 16 nature, throughout the '80s and '90s? Well,
- 17 since 1987, we'll say.
- 18 A. I'm not certain that -- there are
- 19 fines of at least OSHA violations. I know fir
- 20 have been paid over the years. I don't know
- 21 exact amount of --
- 22 Q. Okay.
- 23 A. -- OSHA violations by the State of
- 24 South Carolina.

- 1 Q. What about fines related to DHEC or 2 EPA?
- 3 A. I know that there have been civil
- 4 penalties assessed by DHEC at various times over
- 5 the period you've described. I don't know the
- 6 exact amount. I'm not aware of any penalties
- 7 paid to EPA during that period.
- 8 Q. I think I might have asked you this
- 9 before. I'm sorry. So you're not aware of any
- 10 expert or consultant hired by Exide to determine
- 11 'the source of the lead in King Acres or Westgate
- 12 Trailer Park?
- 13 A. We have not asked any expert, to my
- 14 knowledge, to identify the source of the lead in
- 15 either of those locations.
- 16 Q. And have you hired any expert or
- 17 consultant to figure out what a safe level of
- 18 lead in soil is for children in Westgate or King
- 19 Acres to reside in or play in?
- 20 A. Yes.
- 21 Q. Okay. And what was the -- who was
- 22 the consultant and what did they say?
- 23 A. The consultant was Advanced Geo
- 24 Services in both cases. At Westgate, the

- 1 of anybody complaining about AGC's default
- 2 parameter input of .70 instead of .25?
  - A. I don't recall what the number was.
  - 4 Mr. Kevin Koporec, EPA Region 4, indicated more
- 5 or less that Region 4 would not permit what I
- 6 would call imported data for purposes of
- 7 calculating a site-specific risk assessment.
- 8 Q. And you don't know what DHEC's
- 9 position on that is?
- 10 A. DHEC's position is to adopt EPA's
- 11 position, as I understand it.
- 12 Q. Has Exide conducted any study or
- 13 health report to determine the health effects of
- 14 lead to children in King Acres or Westgate
- 15 Trailer Park?
- 16 A. No.
- 17 Q. Do you know how many children live in
- 18 Westgate Trailer Park and in King Acres?
- 19 A. No.

23

1

2

10

15

- 20 Q. Do you know how many homes are in
- 21 King Acres subdivision?
- 22 A. I don't recall the exact number.
  - Q. And I think you stated before, Exide
- 24 only rents one home in King Acres?

63

- 1 analysis required AGC to import data from 1
- 2 another site because the data which DHEC
- 3 supplied did not allow for input into the IEUBK
- 4 model.
- 5 With that imported data, AGC
- 6 concluded that a level between, I believe it
- 7 was, 520 and 700 would be protective of human
- 8 health in the environment. Excuse me. It would
- 9 be protective of blood lead impacts at Westgate.
- 10 AGC is in the process of, or I believe actually
- 11 has completed, the collection of data necessary
- 12 to run the model for King Acres, and, therefore,
- 13 there is no answer yet for King Acres.
- 14 Q. Okay. What other site did they use?
- 15 A. I don't recall. That would be in
- 16 AGC's correspondence with DHEC.
- 17 Q. And DHEC did not accept that because
- 18 the default ratio they used was incorrect?
- 19 A. DHEC did not review that model.
- 20 Q. Okay. I'm talking the one for
- 21 Westgate, not King Acres.
- 22 A. That's correct. DHEC did not review
- 23 that model.
- 24 Q. So there was -- I mean, are you aware

- A. That's correct.
- Q. Do you know who lives in 105 Bent
- 3 Creek Drive?
- 4 A. The lease of that property was
- 5 terminated. I don't know what the name of the
- 6 tenant was.
  - Q. Okay. What about 107?
  - A. The lease there was terminated, as
- 9 well. I don't know the name of the tenant.
  - Q. Do you know when they were
- 11 terminated?
- 12 A. Within the last three to six months,
- 13 approximately.
- 14 Q. Why were they terminated?
  - A. Exide does not wish to be in the
- 6 business of leasing real estate for residential
- 17 purposes or, for that matter, leasing real
- 18 estate at all.
- 19 Q. Well, do you know what's going to
- 20 happen to those homes?
- 21 A. There are no current plans.
- 22 Q. Has Exide attempted to sell the
- 23 property that is in King Acres subdivision that
- 24 they own?

68

- 1 A. Exide has discussed a sale of some of
- 2 that property, yes.
- 3 Q. Have they attempted to sell the
- 4 property where the facility is located, the old
- 5 Exide Corporation?
  - A. We are marketing that property, yes.
- Q. When was the first time residents of
- 8 King Acres subdivision complained to Exide about
- 9 lead contamination?
- 10 A. I don't know.
- 11 Q. Do you routinely file Freedom of
- 12 Information requests to EPA and DHEC?
- 13 A. No.
- 14 Q. Do you have an agreement with those
- 15 two regulatory agencies that you will get
- 16 documents that are related to Exide facility in
- 17 Greer?
- 18 A. No.
- 19 Q. Did Exide give any warnings to the
- 20 people who leased the homes in King Acres about
- 21 the allegations or complaints of lead
- 22 contamination?
- 23 A. The only lease that I was involved
- 24 in, which is the lease to the current tenant, in

- 1 something. Other times, I'll rely on outside
- 2 experts like AGC and The Fletcher Group.
- 3 Q. Okay. Before, you stated that you
- 4 believe Exide is a significant contributor to
- 5 the lead contamination in Westgate and King
- 6 Acres, correct?
- 7 A. Yes.
- 8 Q. Do you have an opinion about the 9 pathways?
- 10 A. I do not. I would defer to experts
- 11 in those fields.
- 12 Q. Have you hired Dr. Shippen to review
- 13 the health records of any of the children in
- 4 Westgate Trailer Park that had elevated lead
- 15 levels?
- 16 A. Dr. Shippen was not hired
- 17 specifically for that purpose, no.
- 18 Q. He is retained by Exide as their
- 19 health doctor?
- 20 A. He is a medical consultant on an
- 21 ongoing basis, yes.
- 22 Q. And has he reviewed those records of
- 23 those kids in Westgate Trailer Park that allege
- 24 that they have been injured by lead?

67

1

- 1 answer to that question is yes.
- Q. And you don't know who made the
- 3 decision to lease the property before you became
- 4 the authority to make that decision?
- 5 A. No. I don't.
- 6 Q. Do you have an opinion as to who
- 7 might have given permission to rent the
- 8 properties in King Acres?
- 9 A. It would be nothing more than a
- 10 guess.
- 11 Q. Okay. The homes that you own in
- 12 Exide -- I mean that Exide owns in King Acres,
- 13 have you done wipe samples to figure out the
- 14 lead dust levels?
- 15 A. I'm not aware of any such sampling.
- 16 Q. Do you know what the safe level of
- 17 lead dust in a home is?
- 18 A. No, I do not. Again, that's
- 19 something I would rely on an expert for.
- 20 Q. And when you say expert, are you
- 21 talking about an outside expert or somebody who
- 22 is an expert inside Exide?
- 23 A. It depends on the question.
- 24 Sometimes I'm relying on in-house experts for

- A. No.
- 2 Q. Have you asked Dr. Shippen to do a
- 3 review of the medical literature about the
- health effects of lead on children?
- A. No.
- 6 Q. Well, who do you rely on to inform
- 7 you about the health effects of lead on
- 8 children?
- 9 A. I rely upon the published government
- 10 standards to determine what levels are safe, as:
- 11 a general matter, and rely upon experts when
- 12 calculating a site-specific level safe for
- 13 children in the area.
- 14 Q. Well, have you retained any experts
- 15 to figure out the health effects of lead on
- 16 children in Westgate Trailer Park?
- 17 A. No.
- 18 Q. What about in King Acres?
- 19 A. No
- I assume when you asked about the
- 21 health effects of children in various locations,
- 22 you're not talking about what level of soil is
- 23 safe, but what the impact --
- 24 Q. Yes.

72

73

- 1 A. -- if any, on children is?
- 2 Q. You are exactly correct.
- 3 A. Then my answer is correct.
- 4 Q. And you are relying on AGC to
- 5 determine what the safe level is at Westgate
- 6 Trailer Park for children, correct?
  - A. I'm relying on AGC to calculate what
- 8 that number would be, using EPA approved models
- 9 and recognizing that we will not be able to
- 10 implement that level unless DHEC approves of it.
- 11 Q. Okay. Are you aware of any
- 12 conversations or correspondence between Exide
- 13 and Mark Byars?
- 14 A. I'm not aware of any correspondence.
- 15 Q. Do you believe that the lead
- 16 contaminating Mr. Byars' property came from
- 17 Exide?

7

- 18 A. I don't know. I don't have an
- 19 opinion one way or the other on that.
- 20 Q. You don't know if they're a
- 21 significant contributor to the lead on
- 22 Mr. Byars' property?
- 23 A. I'm not an expert in the field, but
- 24 it would not surprise me if Exide is a

- 1 Q. Okay. Well, can you tell us what it
- 2 is?
- 3 A. I don't recall the exact number, but
- 4 Exide has agreed to pay approximately \$175,000.
- 5 Again, I just -- I can't recall the exact
- 6 number.
- 7 Q. And that's about half of what they've
- 8 asked Exide to pay?
- 9 A. Approximately.
- 10 Q. You were arguing or discussing with
- 11 EPA that the statute of limitations had run on
- 12 that cost recovery action, correct?
- 13 A. That was one of the arguments we
- 14 asserted as to a part of the past cost claim,
- 15 yes.
- 16 Q. And why wasn't that statute of
- 17 limitations argument successful?
- 18 A. It's not that it wasn't successful.
- 19 It's that Exide made a decision to settle the
- 20 matter with EPA and EPA made a decision to
- 21 settle with us.
- 22 Q. Okay.
- 23 MR. GEDDIE: We'll be glad to
- 24 quote your legal opinion, that it should

71

- 1 contributor to the levels of lead found on
- 2 Mr. Byars' property.
- 3 Q. You mentioned a compromise between
- 4 Exide and EPA related to the costs of
- 5 remediation done earlier. I thought it was
- 6 1994. I think you thought it was earlier than
- 7 that.
- 8 A. First of all, I don't think I called
- 9 it a compromise.
- 10 Q. Okay.
- 11 A. It was a settlement of a contested
- 12 matter.
- 13 Q. Okay. A settlement?
- 14 A. I believe that the cleanup for which
- 15 the claim -- the cost claim was made, was in 16 '93.
- 17 Q. Okay. And the settlement, do you
- 18 know what the settlement was?
- 19 A. Yes.
- 20 Q. Okay. Could you tell us, or is it
- 21 confidential?
- A. I believe it would be public
- 23 knowledge, certainly upon settlement being
- 24 finalized.

1 have been zero.

- 2 BY MR. MULLMAN:
- 3 Q. Do you know when the lots in King
- 4 Acres were purchased?
- 5 A. Not specifically, no.
- 6 Q. Okay.
- A. Except for Ms. Poteat's property.
- 8 Q. Now, in the discovery responses it
- 9 was stated -- Exide stated that some of the lots
- 10 were purchased because of a groundwater recovery
- 11 system, correct, if you recall?
- 12 A. I do recall, and that is correct.
- 13 Q. Okay. When Exide purchased those
- 14 lots from the previous owners, were those owners
- 15 alleging lead contamination on those lots?
- 16 A. Not to my knowledge.
- 17 Q. And do you know who made the decision
- 18 to purchase the lots, besides Shirley Poteat's,
- 19 which you made?
- 20 A. I don't know.
- 21 Q. You don't know.
- 22 Have you had any correspondence or
- 23 conversations with EPA to attempt to stop the
- 24 final draft of the NEIC?

- 1 A. No.
- 2 Q. Do you believe that it's appropriate
- 3 that the NEIC conduct a final report?
- 4 A. I don't have an opinion one way or 5 the other.
- 6 Q. Has Exide or had Exide had previous
- 7 negotiations with the previous owner of the
- 8 property that is related to this lawsuit?
- 9 A. I don't know.
- 10 Q. How many lawsuits has Exide been
- 11 involved in at the Greer facility related to
- 12 lead contamination or lead exposure?
- 13 A. Prior or pending lawsuits?
- 14 Q. Prior.
- 15 A. I know there are some, I don't know
- 16 the number, workers' compensation claims. Other
- 17 than that, I'm only aware of the Smith case,
- 18 previously brought by your office.
- 19 Q. Okay. Well, you're aware of the
- 20 Miller case, correct?
- 21 A. That's correct, both the Miller and
- 22 Hight cases, and Poteat. That is correct,
- 23 you're right.
- 24 Q. Have you been involved in any of the

- 1 their facility?
- 2 A. In Greer?
- 3 Q. No, around the nation. Are there
- 4 other sites that you had to remediate around the

76

77

- 5 facility.
- 6 A. We did a cleanup in a residential
- 7 neighborhood called Cadillac Heights in Dallas,
- 8 Texas. That neighborhood was adjacent to a
- 9 secondary lead smelter owned and operated by
- 10 Dixie Metals Company, which was a subsidiary of
- 11 General Battery Company.
- 12 Q. Do you know what the cleanup level
- 13 there was?
- 14 A. I do not.
- 15 Q. Okay. Any other places?
- 16 A. That's the only cleanup we have
- 17 performed adjacent to one of our own facilities
- 18 that I can recall right now.
- 19 Q. And do you know when that was?
- 20 A. Mid-1990s. I can't recall the exact
- 21 year.
- 22 O. And --
- 23 A. I'm sorry. Your question was
- 24 off-site cleanup, correct?

75

- 1 lead industries association seminars?
- 2 A. No, I have not.
- 3 Q. Do you know how much money Exide
- 4 contributes to the lead industries association?
- 5 A. No.
- 6 Q. Do you know how much political
- 7 contributions Exide gave to South Carolina
- 8 candidates in 1994?
- 9 A. I don't believe Exide made any
- 10 political contributions to South Carolina
- 11 candidates in 1994 or any other year.
- 12 Q. When was the date of closing for the
- 13 Greer facility?
- 14 A. To the best of my recollection, all
- 15 operations in the facility ceased on or about
- 16 December 1996. For several months prior to that
- 17 date, the only operations were formation, was
- 18 formation.
- 19 Q. When did they stop producing
- 20 batteries?
- A. I don't recall the exact date, but it
- 22 was, I think, sometime in the summer of 1996.
- 23 Q. Do you know the other sites that
- 24 Exide has cleaned up the lead around their site.

- 1 Q. Yeah.
- 2 A. Not on-site?
- 3 Q. Yeah.
- 4 A. Okay.
- 5 O. Now, where is Cadillac Heights?
  - A. Dallas, Texas.
- 7 Q. Dallas. I thought you said that, I'm
- 8 sorry.

6

- 9 MR. MULLMAN: I don't know if
- 10 this was included in yours. I think we
- just got this, actually.
  - (Whereupon, Exhibit 5 was marked:
- 13 for identification.)
- 14 BY MR. MULLMAN:
- 15 Q. I realize that you weren't copied on
- 16 this. I just wanted to ask you if you disagree
  - with some of the things in this letter.
- 18 A. This is a two-page document that's 19 single spaced. Do you want me to read the
- 20 entire thing?
- 21 Q. Yeah, read it. Not out loud. I'm
- 22 saying, read it for your review.
- 23 A. The first -- it appears to be a
- 24 series or, quote, unquote, string of e-mail

messages. The first one is from Elmer Akin at
 Region 4, which I assume means EPA Region 4. It
 doesn't say to whom it is intended. It does say

MR. GEDDIE: Counsel, where did

4 Ralph, so I guess that's Ralph Howard at EPA.

6 you get this?

5

7

8

MR. MULLMAN: Freedom of Information Act request.

9 THE WITNESS: Well, taking them 10 one at a time, the first message is the

only one I've read so far. I understand that to be EPA's position; that is to say

that -- well, no, strike that. I would not

14 say that. I understand it to be the

15 position of some individuals at EPA. I

16 believe it is inconsistent with EPA's own

17 guidance.

18 BY MR. MULLMAN:

19 Q. Okay. Well --

20 A. That's just the first --

21 Q. Yeah. I'll quicken the process here,

22 because you don't have to read it all. Down

23 here, the -- actually, the second to the last

24 paragraph.

78

1 the model itself and never asked EPA to run the

2 model using those blood lead levels. The blood

3 lead levels which DHEC did provide to us in the

4 summer of 1998 did not support a lower cleanup

5 level, according to AGC's analysis.

6 Q. Okay.

7 A. So I guess the short answer to your

8 question is, it does not change my answer.

9 Q. Okay. Does EPA, from this paragraph,

10 at least, sound like they're agreeing with DHEC,

11 that they prefer the 400 parts per million

12 level, as we do?

13 MR. GEDDIE: I object to the form

14 of the question.

15 THE WITNESS: Mr. Howard

16 states -- seems to state as much in this

17 e-mail message. Whether Mr. Howard either

is authorized or qualified to speak for

19 EPA, I can't say.

20 BY MR. MULLMAN:

21 Q. Okay.

22 A. And as I've said, to the extent that

23 Mr. Howard takes that position, I think it's

24 inconsistent with EPA's own written guidance

79

1 A. On the first page?

Q. On the first page. "As to why --"

3 That one I'm most interested in.

4 A. Okay. This is from Ralph Howard at

5 EPA. It says -- the first word of the text is

6 Reuben, so I assume it's to Reuben Bussey at

7 EPA, in-house counsel.

8 Okay. I've read that paragraph.

9 Q. Okay. Does it indicate to you that

10 one of the factors that DHEC and Mr. -- I mean

11 Dr. Marino is using for the cleanup level is

12 that there are actual significantly elevated

13 blood levels at Westgate Trailer Park?

14 A. The phrase, quote, actual

15 significantly elevated blood lead levels here,

16 close quote, appears in the text, yes.

17 Q. I know we were discussing the factors

18 before, and I asked you were one of the factors

19 DHEC was using the fact that there were elevated

20 lead levels in children. Does this change your

21 mind now, that that was one of the factors that

22 DHEC was looking at?

23 A. As I think I said the last time, DHEC

24 was looking at blood lead levels, but never ran

1 documents.

2

5

7

MR. MULLMAN: Actually, I don't

3 know if I'm going to make that an exhibit

4 since it's not to or from him.

MR. GEDDIE: It's already marked,

6 so you might as well leave it.

MR. MULLMAN: Sounds fine. Might

8 as well leave it.

9 BY MR. MULLMAN:

10 Q. Have you looked for a document called

11 Palmetto Air and Water Balance Report, Spring of

12 1994?

13 A. Could you give me the name again?

14 Q. The Palmetto Air and Water Balance

15 Report, Spring of 1994.

16 A. I don't recall hearing that name

17 before, so I can't answer.

18 Q. Have you looked for the Soil Erosion

19 and Sedimentation Plan that was requested in the

20 Smith litigation?

21 A. If it was requested in the Smith

22 litigation, I attempted to locate it.

23 Q. Okay.

MR. GEDDIE: Counsel, if you have

8 1

8.0

84

8.5

```
i
 2
 3
 5
 6
 7
 8
 9
10
15
19
20
21
22
23
24
```

1

23

for identification.)

82 a list of documents that you think were not produced in prior litigation, if you'll give me that list, I'll assure you, we will make a renewed effort to find it. MR. MULLMAN: I think we -- part of our request to produce has a list of those documents. MR. GEDDIE: Okay. MR. MULLMAN: And they're not due for another week yet or two. 11 BY MR. MULLMAN: Q. Are you familiar with this 13 Preliminary Site Assessment by EPA, December 14 1996? A. I have seen this as recently as 16 yesterday, because this is, I believe, one of 17 the documents that you produced to Mr. Geddie, 18 but I do not recall seeing it prior to that, prior to yesterday. Q. Okay. On Page 4. MR. GEDDIE: This is No. 6? MR. MULLMAN: Yes. This will be No. 6. (Whereupon, Exhibit 6 was marked

4 identified the sampling and analysis methods 5 that were employed by, I believe it was, The 6 Fletcher Group, and identified lead levels that were determined following those procedures. Q. Okay. And would that be a CERCLA 9 site, Federal Superfund? Is that what they mean 10 by that? 11 A. I don't recall whether the report was 12 submitted as a Federal Superfund or State 13 Superfund program. 14 Q. So before giving this document, or 15 getting this document from Gray Geddie the other 16 day, you've never seen this or you don't recall 17 it? 18 A. I don't believe I've seen this 19 document before, no. 20 Q. Okay. Well, then, I'm not going to 21 ask you about it then. 22 MR. MULLMAN: It might be easier 23 if we take the break now. 24 MR. GEDDIE: That's fine.

2 by Exide in January 1997.

1 report for Westgate, which was submitted to DHEC

Assuming that's the case, that report

83

```
2
            THE WITNESS: Page 4, including
      the first page?
4 BY MR. MULLMAN:
5
      Q. Yes.
6
      A. I see that page.
      Q. Okay. It says here, on the third
8 paragraph after the Introduction/Executive
9 Summary, "Because of high levels of lead
10 detected on-site, the Westgate Mobile Home site
11 would normally receive a high priority for
12 further Federal Superfund activity," correct?
13 Is that what it states?
14
      A. That's what it states.
15
      Q. And then it goes on to talk about the
16 remedial investigation performed by Exide
17 Corporation under DHEC Consent Order 96-12-HW.
18 Do you know what that remedial investigation
19 said?
20
      A. In general terms, yes, not
21 specifically.
      Q. Okay. Generally, what did it say?
```

A. It identified lead levels in the --

24 I'm assuming that's the remedial investigation

1 (Whereupon, a luncheon recess was 2 taken from 12:55 until 2:05 p.m.) 3 MR. MULLMAN: Let's make this --4 this is a September 28, 1995 letter from 5 the EPA to Mr. Levine. We'll make this 6 Plaintiff's Exhibit 7. 7 (Whereupon, Mr. Robert L. 8 Collings, Esquire joined the deposition.) 9 (Whereupon, Exhibit 7 was marked 10 for identification.) 11 BY MR. MULLMAN: Q. Do you remember receiving this 12 13 document? 14 A. I don't remember receiving it, but it 15 is addressed to me and I probably did get it on 16 or about the date.

Q. Okay. Do you agree with the EPA's 18 assertion that the Exide facility located in 19 Greer, South Carolina violated the Clean Air 20 Act's New Source Performance standards? 21 A. No, I do not.

22 Q. Okay. And why not?

23 A. I do not believe that a source

24 becomes a New Source under subpart KK of the Air

\_ \_\_\_\_

2

8

1 Regulations Part 6040 CFR.

2 Q. Okay. Did you enter into a Consent

3 Order related to this alleged violation?

A. With EPA?

5 Q. Yes.

4

10

11

12

13

6 A. No.

7 Q. Okay. All right. Let's proceed.

8 MR. MULLMAN: This will be

9 Exhibit No. 8.

(Whereupon, Exhibit 8 was marked for identification.)

THE WITNESS: My answer with regard to EPA may have been incomplete. I

do not take the -- it is not my position

that an old source can never become a newsource. As to the circumstances under

which an old source can become a new

18 source, I differ with the position of the

source, I differ with the position of

19 EPA as stated in this letter.

20 BY MR. MULLMAN:

21 Q. And this is a February 28, 1996 fax

22 which includes your name. Do you remember

23 seeing this fax and this letter from Neal Lebo?

24 A. I don't remember receiving it, but

1 know when it was done, these tests?

A. I have no independent recollection,

88

89

3 but I would assume it was done shortly before

4 July 31, 1995, which is the date that the draft 5 was received.

5 was received.6 Q. Okay. And did the production

7 decrease between July '94 and July '95?

A. I don't know.

9 Q. Okay. On the second paragraph, it

10 states, quote, It should be noted that, while

11 production during all test runs was

12 representative of current plant operations, the

13 daily production requirements on the Greer

14 facility have been significantly curtailed over

15 the past six months. Would you agree that

16 that's what it says?

17 A. I have no independent knowledge. I

18 have no reason to doubt that that's the case.

19 O. Were tests done on the stacks when

20 production was at its maximum?

21 A. I don't know. It would -- it would

22 state what -- the production level would be

23 stated in the report of the consultant who did

24 the tests.

5

8

9

10

11

13

15

20

87

1 I'm sure I did receive it, based on the cover

2 page.

3 Q. Okay. The next page is a draft

4 letter to DHEC, Mr. Tilford.

5 A. I'm sorry. If I could note, the

6 cover page says pages including cover nine, and

7 I think there were six pages here, so it may

8 just be that -- it seems there's something

9 missing, but as I say, I'm sure I received

10 whatever was faxed from Mr. Lebo.

11 Q. I think that the end is just the

12 first page of the Consent Order. I don't think

13 we have the whole Consent Order.

14 A. Okay.

15 Q. The second page talks about their Air

16 Systems testing at Exide Corporation's

17 manufacturing facility on stacks No. 2, 3, 4 and

18 5. Do you recall those test results in this

19 testing done?

20 A. I recall that there was testing done

21 in or about this time. I don't recall what the

22 results were, specifically, other than what the

23 result was.

24

Q. Okay. And this test result, do you

1 Q. Okay. Do you know if Air Systems

2 Testing, the consultant that is mentioned in

3 here, ever informed Exide that its emissions

4 violated the EPA and DHEC standards?

A. I don't believe they ever so

6 communicated, and I don't believe that, in fact,

7 the facts presumed in your question are true.

Q. Okay.

MR. MULLMAN: This will be No. 9.

MR. GEDDIE: What's the date on

that letter?

12 MR. MULLMAN: It's March 19,

1997, EPA.

14 (Whereupon, Exhibit 9 was marked

for identification.)

16 BY MR. MULLMAN:

17 Q. I notice that Page 4 is not attached.

18 I think it wasn't included and then they faxed

19 it to us or something.

Have you ever talked to Winston Smith

21 at EPA?

22 A. No

23 Q. Okay. What about Russ Wright?

24 A. No.

Q. Okay. Have you ever seen this 1 2 document before?

A. I saw it yesterday, because it was among the documents which your office produced to Mr. Geddie, but I had not seen it previously.

Q. Okay. The third line states, "The company -- " and I presume they mean Exide --"has completed a Remedial Investigation dated

9 January 1997 in which they drew several

10 conclusions; mainly, that Exide is not

11 responsible for lead deposition in Westgate."

12 Do you agree with that

13 characterization of remedial investigation done?

14

15 Q. Okay. Why do you disagree with it?

A. The report did not state that Exide

17 was not responsible for lead deposition in

18 Westgate. The report stated that the wide

19 dispersion of lead levels across the Westgate

20 property made a determination of all of the

21 sources of the lead difficult.

Q. Okay. Well, what could be done to

23 figure out who is responsible for the lead at

24 Westgate Trailer Park?

I Westgate because, as I stated earlier, we

> 2 suspect that we are a contributing source

3 of the lead present at that location.

4 BY MR. MULLMAN:

Q. Okay. Does Exide or do you believe that there's another contributing source that is

7 known?

8 A. As I stated earlier, there are a

9 number of possibilities, given the prevalence of

lead in the environment all over the country, if

not all over the world.

12 Well, can you name some of those

13 possibilities?

14 MR. GEDDIE: He's already done it

once. I mean, you want to do it again?

16 MR. MULLMAN: I didn't think he

17 did it.

15

18 BY MR. MULLMAN:

19 Q. I didn't think you named all the

20 sources.

21 A. No, I said earlier there could be --

22 well, I can't name all of them, but I can name

23 some of them. There are anthropogenic sources,

24 including emissions from lead contaminated --

A. You would have to ask an expert in 2 that field.

Q. Okay. The next page talks about a

4 report: Proposal for Identifying the Specific

Source of Lead Emissions in Westgate Trailer

6 Park in Greer, South Carolina, correct?

7 A. That's what it says, yes.

Q. And can you read the objective on the

next page?

10 Do you want me to read what's written Α.

11 here?

12 Q. Yes, please.

A. Quote, Identify the source of lead 13

14 (Pb) deposited within the Trailer Park so that

15 the responsible party can be identified and so

16 remediation can be undertaken as needed by said

17 responsible party. End of quotation.

18 Q. Why would Exide agree to remediate

19 Westgate before the NEICs final report was done,

20 since their objective is to find out who the

responsible party is?

22 MR. GEDDIE: If you know.

23 THE WITNESS: Exide did proceed

24 with the cleanup and the investigation of 1 not lead contaminated -- leaded gasoline. There

may be other anthropogenic sources, and lead is

a pervasive compound in the natural environment.

Those are two, as I mentioned earlier, possible

5 contributing sources.

Q. Do you think --

It could also be people working on

automobiles, their own, or those of other

people, that could contribute to the presence of

10 lead.

11 Q. And are you relying on any consultant

12 or expert for those, or is that something that

13 you have knowledge of?

14 A. Over the years of reading

15 consultants' reports, I am aware that all of

16 those sources can be sources of lead at a

17 particular location.

18 In addition, as I mentioned earlier,

19 there was sampling that was conducted at

20 Westgate along Old Buncombe Road which showed

21 elevated levels along the roadside as compared

22 to the rest of the property.

23 (Whereupon, Exhibit 10 was marked

24 for identification.) 93

96

97

## 1 BY MR. MULLMAN:

- Q. This is an August 13, 1997 letter to
- 3 Mr. Lebo. Now, you're not copied on this, but I
- 4 wanted to ask you if you've ever seen this
- 5 letter before or if you've ever talked to
- 6 Mr. Lebo about this letter before?
  - A. I believe I have seen this letter
- 8 before, but not at the time it was sent to
- 9 Mr. Lebo.
- 10 Q. Okay. No. 1 says, "The state has
- 11 provided Exide with justification for the
- 12 400 milligrams/kilograms cleanup level in Gary
- 13 Stewart's letter dated July 1, 1997."
- 14 That's what it says, correct?
- 15 A. That is what it says.
- 16 Q. Do you disagree that the state gave
- 17 Exide justification to 400 at that time?
- 18 A. I disagree with that statement. They
- 19 had not given such justification at that time.
- 20 Q. Do you recall that Gary Stewart's
- 21 letter dated July 1, 1997 said that they believe
- 22 that gave justification?
- 23 A. I'm sure I've seen Mr. Stewart's
- 24 July 1 letter, but I don't recall specifically

- 1 the Fletcher Group report.
  - Q. The last line on the first page says,
  - 3 "Exide has conducted all possible investigation
  - 4 options to identify the source of the lead on
  - 5 Westgate Trailer Park."
  - 6 Do you agree with that statement?
  - 7 A. No
  - 8 Q. Why not?
  - A. I don't think that we have focused
- 10 very much, if at all, on identifying other
- 11 sources of lead.
- 12 Q. Okay. I don't think it says other
- 13 sources. It says "the source" of the lead.
- 14 A. Well, I don't believe there is a
- 15 single source of the lead.
- 16 Q. Okay. Well, has Exide conducted all
- 17 possible investigation options to identify any
- 18 source at the Westgate Trailer Park?
- 19 A. No.

20

23

i

15

- Q. Okay. Moving right along.
- 21 MR. MULLMAN: April 14, 1998
- 22 letter. This is Exhibit No. 11. This is
  - to Mr. Lebo.
- 24 (Whereupon, Exhibit 11 was marked

95

- 1 what that letter says.
- 2 Q. Okay. No. 2 states, "The depth of
- 3 the soil removal should be at least six inches,"
- 4 correct?
- 5 A. That's what it says.
- 6 Q. Do you know why DHEC changed their
- 7 mind and just allowed Exide to do three inches?
- 8 A. I don't know that DHEC just allowed
- 9 Exide to do anything.
- 10 Q. You know what I mean. Do you know
- 11 why they changed it from six inches to three
- 12 inches?
- 13 A. As I said earlier, first of all, I
- 14 don't know what the thinking of DHEC's mind was,
- 15 but we did make our consultant available to
- 16 DHEC's technical personnel, and there was a
- 17 series of conversations between our consultants
- 18 and DHEC's personnel as to the merits of the
- 19 work plan that we had submitted.
- 20 Q. The soil sampling that The Fletcher
- 21 Group performed or conducted on behalf of Exide,
- 22 is that to three inches, six inches, or nine
- 23 inches, to your knowledge?
- 24 A. I don't recall. I'd have to look in

for identification.)

- BY MR. MULLMAN:
- 3 Q. Once again, you weren't copied on
- 4 this, but do you remember seeing this?
- 5 A. I have seen this letter before, yes.
- 6 Q. Okay. In the first line, first
- 7 paragraph, it talks about the two reasons why
- 8 DHEC wants cleanup to be 400 parts per million.
- 9 It says, "First, 1996 surface soil sampling
- 10 conducted by The Fletcher Group for Exide, as
- I well as other sampling data, indicate the
- 12 presence of lead contamination in excess of
- 13 400 parts per million in large delineated areas
- 14 of the Trailer Park."
  - Do you agree with that, that The
- 16 Fletcher Group sampling shows lead contamination
- 17 in excess of 400 parts per million?
- 18 A. The data presented in The Fletcher
- 19 Group report does show that there are sampling
- 20 points in excess of 400 ppm at Westgate.
- 21 Q. And would that be true for King
- 22 Acres, too?
- 23 A. At certain locations, yes.
- 24 Q. Okay. One of those locations being

1 Mark Byars' property?

- 2 A. I don't recall.
- Q. Then it says, "Secondly, 3
- 4 site-specific data indicates the presence of a
- continuing exposure pathway as evident by
- elevated blood lead levels in residents several
- years after the 1995 EPA removal action."
- 8 Do you agree with that statement?
- 9 A. No.
- 10 Q. Okay. Why not?
- 11 A. Because we have not received any
- 12 data, that I'm aware of, that shows persistent
- 13 elevated blood lead levels in residents at
- 14 Westgate Trailer Park.
- 15 Q. Did Exide ever go out to Westgate and
- 16 perform any blood lead testing on the residents
- 17 there?
- 18 A. No.
- 19 O. Okay. Did DHEC ever ask them to do
- 20 that?
- 21 A. No.
- 22 Q. Are you aware of the public lead
- 23 awareness program that was recommended to be
- 24 done by DHEC in 1989 through 1991?

answered. 1

3

- BY MR. MULLMAN:
  - O. Okay, Well, why not? Why didn't
- 4 Exide offer to help the state determine if there
- were children getting injured at Westgate 5
- Trailer Park because of lead?
- 7 A. First, the state had conducted some
- blood lead sampling. Secondly, the state, I
- don't believe, ever asked Exide to fund a state
- 10 health initiative.
- 11 Q. Okay. The last two lines in the
- 12 second paragraph, the one right before that,
- 13 talks about justifying setting the higher
- 14 cleanup goal than 400. Then it goes on to
- 15 state, quote, However, since an exposure rou
- 16 still exists and there's a documented history (
- 17 elevated blood lead levels in Westgate
- 18 residents, there's no justification at this
- 19 site. Therefore, Exide Corporation must con
- 20 the cleanup to a level of 400 parts per million
- 21 total lead,"

24

9

99

- 22 Is that what it says?
- 23 A. That's what it says.
  - Q. Okay. Now, do you think that that is

A. My recollection is there was some

- 2 correspondence between DHEC and Exide personnel,
- 3 but the content of that correspondence, I don't
- 4 recall, independently.
- Q. Well, would it be fair to say that
- 6 DHEC was, at least in 1989 through '91,
- concerned about the lead at Westgate and the
- effect of the lead on children?
- 9 MR. GEDDIE: I object to the form
- 10 of the question.
- 11 THE WITNESS: I don't recall,
- 12 independent of looking at the
- 13 correspondence, what DHEC's concerns were,
- 14 other than that DHEC indicated that they
- 15 did not have funding available to do some
- 16 of the things that were under discussion.
- 17 BY MR. MULLMAN:
- 18 Q. And did Exide offer money to help
- 19 them fund that?
- 20 A. Not that I recall.
- Q. Okay. Why not? I mean, wouldn't 21
- 22 Exide be concerned about the children at
- 23 Westgate Trailer Park?
- 24 MR. GEDDIE: That's not what he

- 1 justification to Exide to clean it up to 400
- 2 parts per million? They're saying that, one, a
- 3 exposure route still exists; and two, that
- 4 there's a documented history of elevated bloc
- 5 lead levels. Would you say that that gives
- 6 Exide justification to clean it up to 400 parts
- per million?
- 8 A. No.
  - Q. Okay.
- 10 (Whereupon, Exhibit 12 was marke
- for identification.) 11
- 12 BY MR. MULLMAN:
- 13 O. This is a November 6, 1998 letter to
- 14 Mr. Wilson from Mr. Lebo, and it shows tha
- 15 were copied on this. Do you remember rece
- 16 a copy of this letter?
- 17 A. I don't remember it, but I have no
- 18 doubt that I received it.
- Q. Okay. Now, this is talking about an
- 20 off-site soil investigation of King Acres,
- 21 correct?
- 22 A. Yes.
- 23 Q. And Exide's position here is that
- 24 until cleanup level at the trailer park is

1 resolved, there would be no purpose to proceed

- with the expanded study in King Acres, correct?
- 3 That's what it says?

4

- MR. GEDDIE: Well, the letter
- 5 speaks for itself.
- BY MR. MULLMAN: 6
- 7 Q. Okay. Well, I just wanted to -- we
- can read the letter then.
- 9 All right. The second paragraph, the
- 10 fourth line, it says, "However, until this
- fundamental issue is resolved, it would serve no
- purpose to proceed with an expanded study in
- 13 King Acres," correct?
- 14 That's what it says.
- 15 Now, why wouldn't it still serve the
- 16 purpose to sample King Acres to find out the
- 17 levels?
- 18 A. Because you'd end up duplicating the
- 19 work, potentially, by having to go back and
- 20 resample once the cleanup goal was established.
- 21 It would not move the ball forward in
- 22 determining what the cleanup level is.
- 23 Q. But after they determined the cleanup
- 24 level at Westgate, you're still doing the

- Q. Now, since that issue has been
  - resolved, and correct me if I'm wrong, that
  - issue has been resolved? Exide has cleaned it
  - up to 400 parts per million?
    - A. Correct.
  - 6 How does that affect the cleanup of
  - King Acres?
  - 8 Exide's position, as I stated before,
  - is that a cleanup to 400 parts per million is
  - 10 overly protective, and that a site-specific risk
  - assessment should be performed for King Acres,
  - as it should have been performed for Westgate.
  - And DHEC has allowed us the time to do that risk
  - 14 assessment.
  - 15 Q. Okay. But isn't it good that DHEC
  - wants to be overprotective of people, including
  - children, in King Acres and Westgate Trailer
  - 18 Park?
  - 19 MR. GEDDIE: I object to the form
  - 20 of the question.
  - 21 BY MR. MULLMAN:
  - 22 Q. And isn't that something that they're
  - 23 supposed to be doing?
  - MR. GEDDIE: Same objection. 24

103

- 1 duplicative work, aren't you? I mean, you're
- not agreeing to do cleanup of 400 in King Acres,
- right?
- A. I'm not sure what the question is.
- 5 I'm sorry.
- Q. Okay. Well, let's go back. Why did
- 7 Exide not want to proceed with an expanded study
  - in King Acres?
- A. As a general matter, when there's
- 10 already data at a site, a further delineation
- 11 is -- could very well be a waste of time and
- 12 money without knowing what we're delineating to,
- 13 and DHEC has defined the delineation criteria as
- 14 being equivalent to, or equal to, rather, the
- 15 cleanup criteria. And so, until we know what we
- 16 have to delineate to, it seems to be, as I say,
- 17 a waste of time and money, and, more
- 18 importantly, it does not advance the ball to
- getting cleanup done.
- 20 Q. Okay. So you wanted to resolve the
- 21 cleanup lead level at Westgate first?
- 22 A. At Westgate or King Acres?
- 23 Westgate. Q.
- 24 Yes, sir. Yes, that's correct.

1 How can he speak to what DHEC ought to be

2 doing?

3 MR. MULLMAN: He negotiates with 4

DHEC.

5 MR. GEDDIE: You and I live in

6 the state, too, but we can't speak for

DHEC.

7

8 BY MR. MULLMAN:

- 9 Q. Well, wouldn't Exide want to be
- 10 overly protective of the children in Westgate
- 11 Trailer Park and King Acres, especially if
- 12 they're a significant contributor to the lead?
- 13 A. Exide wants to be protective of all
- 14 persons, as well as the environment. We do not
- 15 think it is necessary to be overly protective
- when there are sound scientific models which
- 17 have been developed and endorsed by EPA which
- allow one to determine safe levels, that
- themselves incorporate many levels of risk
- 20 reduction, such as safety factors, and,
- therefore, feel there's no need to go above and
- beyond those factors endorsed by EPA of insuring
- that there's a safe level for human health and
- 24 the environment.

105

6

14

106

- 1 Q. Now, I noticed you mentioned EPA, but 2 isn't DHEC the lead agency here?
- 3 A. DHEC is the lead agency.
- 4 Unfortunately, DHEC has not adopted any
- 5 standards by which one could determine a cleanup
- 6 level.
- 7 Q. And DHEC could request Exide to clean
- 8 it up to 100 parts per million, correct?
- 9 A. If they have a sound basis in
- 10 science, fact, and law, sure.
- 11 Q. Okay. So considering that Exide
- 12 believes that 400 parts per million is overly
- 13 protective, why did they agree to clean it up to
- 14 that level?
- 15 A. We recognized that DHEC was
- 16 determined at that point to proceed, however
- 17 much we thought their proceeding was with or
- 18 without justification, and recognized that we
- 19 could achieve the objectives of the cleanup both
- 20 more quickly and more efficiently, and so
- 21 decided to do so.
- 22 Q. Okay. Well, does DHEC seem
- 23 determined to fund the cleanup at King Acres at
- 24 400 parts per million?

107

4

12

- MR. GEDDIE: I object to the form
- 2 of the question.

- 3 THE WITNESS: I don't know what
- 4 DHEC intends.
- 5 BY MR. MULLMAN:
- 6 Q. Okay. And they haven't told Exide
- 7 that they want the cleanup at King Acres to be
- 8 400, have they?
- 9 A. Not to my knowledge.
- 10 Q. Okay.
- 11 MR. MULLMAN: There are two
- documents here, January 13, 1999, from the
- 13 EPA, and a memo from Kevin Koporec from the
- 14 EPA. The reason they're together is that
- 15 the first one says that the other one was
- 16 attached. So we'll just make that one.
- 17 (Whereupon, Exhibit 13 was marked
- 18 for identification.)
- 19 BY MR. MULLMAN:
- 20 Q. Do you remember receiving this
- 21 letter?
- 22 A. Yes.
- 23 Q. Okay. And do you remember receiving
- 24 the memo from Kevin Koporec?

- A. I did receive it. I don't
- 2 specifically recall whether it was attached to
- 3 this or not, but if it says in the letter it
- 4 was, I'm sure it was.
- 5 Q. Okay. On the second page --
  - A. Of the letter?
- 7 Q. -- of the letter, yes. The second to
- 8 the last paragraph says, quote, EPA has
- 9 designated Westgate a 'low priority site,'
- 10 largely because the State of South Carolina is
- 11 the lead agency and Exide has indicated a
- 12 willingness to clean up the contamination.
- 13 Is that what it says?
  - A. That's what it says.
- 15 MR. GEDDIE: That's what it says.
- 16 MR. MULLMAN: Okay.
- 17 MR. GEDDIE: Yep.
- 18 BY MR. MULLMAN:
- 19 Q. Do you believe that this would be a
- 20 high priority site but for the State of South
- 21 Carolina being the lead agency? If EPA was
- 22 lead agency, would this be a high priority?
- 23 A. I don't know.
- 24 Q. You didn't have conversations with
- 1 Reuben Bussey related to that?
  - 2 A. Not on this subject, no.
  - 3 Q. Okay. Going to the --
    - A. To be clear, not on the subject of
  - 5 whether Westgate would be a low- or
  - 6 high-priority site.
  - Q. Okay. Going to Kevin Koporee's me
  - 8 do you believe that this gave Exide
  - 9 justification why the cleanup should be 400
  - 10 parts per million?
  - 11 A. No.
    - Q. On the second page, second paragra-
  - 13 it says, "As noted above, 400 parts per millic
  - 14 is the screening level for lead and soil at
  - 15 CERCLA sites. This is based on the EPA
  - 16 Integrated Exposure Uptake and Biokinetic
  - 17 run with model defaults for all exposure
  - 18 parameters other than soil and dust lead
  - 19 concentrations." Correct?
  - 20 A. That's what it says.
  - 21 Q. Now, I think you stated before that
  - 22 AGC was unable to do an IEUBK model, cc
  - 23 A. No. What I said was AGC was not
  - 24 given all of the data necessary to do a comp

IEUBK model run without importing data for one
 parameter.

- 3 Q. Okay. What parameter was that, do
- 4 you remember?
- 5 A. I believe it was house dust, but I
- 6 can be wrong about that. I'd have to rely on --
- 7 I'd have to look at the AGC submittal to DHEC to
- 8 be certain.
- 9 Q. Well, if the lead is in soil, why
- 10 would house dust be important?
- 11 A. As I said before, I am far from an
- 12 expert in the model or what the parameters are
- 13 or how they interact with one another. I just
- 14 know it's one of the parameter inputs.
- 15 Q. Would you and Exide then defer to AGC
- 16 on this point?
- 17 A. We would defer to AGC on any -- on
- 18 how the model -- how the inputs are used and how
- 19 the model is run and was run for Westgate.
- 20 MR. MULLMAN: All right. We'll
- 21 move on. I'm not sure why, but there's two
- 22 copies of this letter together. This will
- 23 be Plaintiff's Exhibit No. 14.
- 24 (Whereupon, Exhibit 14 was marked

- ne 1 A. As I said before, we could physically
  - 2 perform a cleanup, but it would be not one
  - 3 endorsed by any government agency.
  - 4 Q. Okay. Did Mr. Bussey respond to this 5 letter?
  - 6 A. I believe he did. I don't know the 7 date of his response.
  - 8 Q. In the second page, you mention that
  - 9 we would bring our consultant, on the second to
  - 0 the last paragraph. Is that AGC that you're
  - 11 mentioning there or is --
  - 12 A. I'm sorry. Where are you reading
  - 13 from?
  - 14 Q. The second to the last paragraph,
  - 15 second to the last line. Saying, "We would-
  - 16 bring our consultant." Is that AGC that you're
  - 17 talking about?
  - 18 A. That would be AGC, correct.
  - 19 Q. And are you trying to set up a
  - 20 meeting with the EPA people?
  - 21 A. Yes.
  - 22 Q. And at this point, you believe that
  - 23 EPA was the lead agency, or do you believe that
  - 24 DHEC was the lead agency?

111

- 1 for identification.)
- 2 MR. MULLMAN: I assume that's how
- 3 we received it from the EPA, so --
- 4 MR. GEDDIE: They serve
- 5 duplicates, too.
- 6 BY MR. MULLMAN:
- 7 Q. Do you remember writing this letter
- 8 to Mr. Bussey at the EPA?
- 9 A. Yes.
- 10 Q. It seems in this letter, and, please,
- 11 I don't want to mischaracterize the letter, that
- 12 you're kind of frustrated or complaining about
- 13 the back and forth between EPA and DHEC; is that
- 14 true?
- 15 A. That's very true. It was a source of
- 16 constant frustration for us because it prevented
- 17 any forward progress on this matter.
- 18 Q. Could Exide have just taken the lead
- 19 and cleaned it up at a certain level?
- 20 A. Exide cannot take the lead agency
- 21 role because that is one, by statute, reserved
- 22 for government agencies.
- 23 Q. Okay, What about in King Acres with
- 24 property that you own?

- 1 A. At the time the letter was written?
- 2 Q. Yes.
- 3 A. Well, as I said on the bottom, the
- 4 first sentence of the third paragraph of the
- 5 letter, there was a great deal of confusion as
- 6 to who was the lead agency at that point in
- 7 time, as there had been in the several prior
- 8 times.
- 9 Q. Well, since Gary Stewart's July 1997
- 10 letter, has EPA and DHEC agreed that 400 parts
- 11 per million should be the cleanup level?
- 12 A. EPA has indicated they do not object
- 13 to a 400 ppm cleanup level at Westgate.
- 14 Q. But doesn't Kevin Koporec, who is in
- 15 EPA, doesn't that indicate that they not only
- 16 object, but that they agree with 400 parts per
- 17 million being the appropriate clean-up level at
- 18 Westgate Trailer Park?
- 19 A. I don't believe that is Mr. Koporec's
- 20 opinion.
- 21 Q. Okay. Let's go back. Perhaps I
- 22 didn't -- the second page.
- 23 MR. GEDDIE: What exhibit?
- 24 THE WITNESS: 13, I believe.

113

6

114

Second page of the memorandum?

BY MR. MULLMAN:

- Q. Yes. Can you read the second
- 4 paragraph from the top, the last line. Second
- 5 paragraph, the first full paragraph.
  - A. Which paragraph? Sorry.
- 7 Q. Let me show you. It's probably
- 8 easier that way.
- 9 A. Which line did you want me to read?
- 10 Q. Last one. "From --"
- 11 A. "From the information presented there
- 12 is no basis to alter the default ratio as 0.7;
- 13 therefore, the soil lead concentration needed to
- 14 protect human health is 400 ppm lead in soil."
- 15 O. So does that indicate that EPA not
- 16 only doesn't object to DHEC's cleanup level, but
- 17 agrees with it and supports it?
- 18 A. In the absence of site-specific
- 19 information, that may be a fair reading of this
- 20 statement.
- 21 Q. Okay. And how long would it take to
- 22 get the site-specific information?
- 23 A. We had proposed that we could get the
- 24 information in two weeks.

- 1 1998, the Department contacting Mr. Lebo
- 2 regarding the need for additional sampling of .
- 3 the King Acres subdivision, correct?
- 4 A. That's what it says.
  - Q. And has that sampling been done?
  - A. It's either being done or it's been
- 7 done. I believe it's been done.
  - Q. Okay. It also states, in that same
- 9 paragraph, the third line from the bottom in
- 10 that paragraph, the state's industrial clean-up11 number of 895 parts per million was not
- 11 number of 625 parts per million was i
- 12 appropriate, according to Exide.
- Do you agree with that? Has DHEC
- 14 asked you to clean up the site to 895 parts per
- 15 million?
- 16 A. They have not asked us to clean up
- 17 the site to 895 parts per million.
- 8 Q. Have you submitted a proposal for
- 19 collecting additional samples in the Kings Acre
- 20 subdivision?
- 21 A. Yes, we did.
- 22 Q. Okay. And that is pursuant to the
- 23 Consent Order of 96-12-HW?
- 24 A. I'm not sure if it's pursuant to that

- 1 Q. Okay. When did you propose that?
- 2 A. To DHEC on several occasions; to EPA
- 3 in May 1999.
- 4 Q. And this has been going on since at
- 5 least July 1997, correct?
- 6 A. That's correct.
- 7 O. Okay.
- 8 A. And no one ever gave us authority
- 9 to -- well, that's not true. DHEC never gave us
- 10 authority to go ahead, or approval to go ahead
- 11 and collect that data.
- 12 Q. Okay.
- 13 MR. MULLMAN: This is June 15,
- 14 1999 letter to Mr. Lebo.
- 15 (Whereupon, Exhibit 15 was marked
- 16 for identification.)
- 17 BY MR. MULLMAN:
- 18 Q. This is to Mr. Lebo. Do you remember
- 19 seeing this document, this letter?
- 20 A. I'm going to take a moment to look at
- 21 it, please.
- 22 Q. Okay.
- 23 A. Yes, I do recall seeing this letter.
- 24 Q. It talks about a -- on October 23,

- Consent Order or just in cooperation with the
   DHEC request.
- 3 Q. Okay. On the second page, the first
- 4 line, the first complete sentence. "If you feel
- 5 additional sampling and/or modeling is not
- 6 required, then a remediation plan for Kings
- 7 Acres, which delineates the areas of removal
- 8 400 parts per million, should be submitted
- 9 within 45 days of receipt of this letter,"
- 10 correct?
- 11 A. That's what it states.
- 12 Q. Now, does DHEC want you to clean
- 13 Kings Acres to 400 parts per million?
- 14 MR. GEDDIE: I object to the form
- 15 of the question.
- 16 THE WITNESS: I don't know wha
- 17 DHEC wants.
- 18 BY MR. MULLMAN:
- 19 Q. Okay. Have they informed you of
- 20 that?
- 21 A. That they want us to clean up to 400
- 22 ppm?
- 23 Q. Yes.
- 24 A. No.

- 1 Q. And have you -- is this why you did
- 2 additional sampling, because you feel it's
- necessary, pursuant to this letter?
- 4 A. We had told DHEC, prior to this
- 5 letter, that we thought that additional sampling
- was necessary to be able to run the IEUBK model
- 7 for Kings Acres.
- 8 Q. Okay. And who was collecting the
- 9 wipe samples for this IEUBK model, is it AGC?
- 10 A. I don't recall specifically what data
- II is being collected, but all the data collection
- 12 is by AGC or subcontractors of theirs.
- 13 Q. Okay. And are you aware of who the
- 14 subcontractors are?
- 15 A. I don't know that there are any
- 16 subcontractors. Sometimes they do use
- 17 subcontractors for specific tasks.
- 18 Q. Okay.
- 19 (Whereupon, Exhibit 16 was marked
- 20 for identification.)
- 21 BY MR. MULLMAN:
- 22 Q. It mentions -- well, do you remember
- 23 writing this letter?
- A. Yes. 24

- one who brought NEIC into the picture? 1
  - 2 A. EPA has stated as much to us.
  - 3 Q. Okay. And that memo that we looked

120

121

4 at before --

5

7

10

- It was towards the beginning --Α.
- 6 Was it?
  - A. -- of the exhibit.
- 8 MR. GEDDIE: The NEIC report is
- 9 No. 2, Draft Report.
  - MR. MULLMAN: Yeah. I don't want
- 11 the NEIC report. I want the EPA letter
- 12 talking about the objectives in getting the
- NEIC --13
- 14 BY MR. MULLMAN:
- 15 Q. It's Exhibit 9, then, I'm talking
- about. Why don't you review that. Does that
- letter and accompanying memo indicate that EPA
- 18 was the one who got NEIC involved?
- 19 A. This memo, by itself, is unclear. It
- 20 states, quote, Regional waste division staff in
- working with South Carolina asked us if we knew
- of a way to show responsibility of lead
- 23 deposition or could assist them in doing so.
- 24 Therefore, it's not clear from this

119

- 1 It mentions sending a separate cover,
- 2 a notebook, containing the materials which
- contain the communications between Exide and
- 4 DHEC. Do you remember sending that?
- 5 A. Yes.
- 6 Q. Is that going to be disclosed to
- plaintiff's counsel in this case?
- If there's an appropriate request,
- 9 I'm sure we'll provide it.
- 10 Q. Okay.
- 11 MR. GEDDIE: Have you asked for
- 12 it?
- 13 MR. MULLMAN: I think so. We
- 14 asked for all correspondence. I think this
- 15 would fall under it.
- 16 MR. GEDDIE: Well, then, you'll
- 17 get it.
- 18 MR. MULLMAN: Okay.
- 19 BY MR. MULLMAN:
- 20 Q. In the second paragraph, the fourth
- 21 line, it says, "Rather than respond, or even
- 22 challenge Exide to confirm its commitment, DHEC
- 23 simply decided to bring NEIC into the picture."
- 24 Why do you believe that DHEC was the

- 1 memo whether the request originated with EPA or
- with DHEC or with someone else instead of South
- 3 Carolina.
- Q. Do you know if DHEC requested EPA to
- ask NEIC to get involved so that they would have
- justification for Exide to clean it up at 400
- 7 parts per million?
- A. My understanding is that NEIC was not
- doing anything to address the cleanup level,
- but, rather, to determine whether they could
- 11 especiate (phonetic) lead by source.
- 12 I'm not sure that that answered all 13 of your question.
- 14 Q. It's good enough.
- 15
- Okay. The next page. The
- 16 paragraph --

- A. Still on Exhibit 9?
- 18 Q. No, I'm sorry. I'm back to --
- 19 MR. GEDDIE: 16?
- 20 BY MR. MULLMAN:
- 21 16, yeah.
- 22 You're on the second page of the A.
- 23 letter?
- 24 Yes. The second to the last

....

paragraph. "It is evident from the foregoing
 that DHEC mislead EPA if it indicated that Exide

2 had refused to proceed with remediation at the

3 had refused to proceed with remediation at the4 site."

Now, how did they mislead EPA, if

6 Exide is disagreeing with the cleanup level of7 400 parts per million?

8 A. The disagreement over the cleanup

9 level postdates DHEC's referral of the matter to

10 EPA and request for NEIC to become involved,

11 based upon what EPA has indicated to us about

12 the timing of that referral and request.

13 Q. Okay. And who at EPA told you that?

14 A. Billy Bright at EPA, Region 4.

15 Q. Okay. The next sentence says,

16 "Therefore, there was no legitimate reason for

17 the NEIC investigation," correct?

18 A. That's what it says.

Q. Well, if they're trying to figure out

20 the source, isn't there a legitimate reason?

21 A. The question is, why are they

22 spending any money trying to figure out the

23 source?

19

5

24 Q. Because they want the responsible

1 money and time.

Q. Okay. Well, I don't -- I mean, what

3 makes you think that the NEIC was gunning for

4 Exide or trying to prove that Exide was the

5 source? I think they're just trying to figure

6 out who the source is, not that Exide is the

7 source.

8

MR. GEDDIE: Is that the

9 question?

10 BY MR. MULLMAN:

11 Q. Yeah. I'm saying -- well, he kind of

2 phrased it that the NEIC is kind of trying to

13 determine if Exide is the source, and I'm

14 wondering why you think that?

15 A. As I said earlier, we are not aware

16 of any actual report of the NEIC investigation,

17 but it has been indicated to us that that was

18 the focus of the NEIC investigation.

19 Q. Okay. Who told you that?

20 A. Personnel at EPA.

Q. Personality PA?

22 A. Personnel at EPA.

23 Q. Oh. Well, which personnel?

A. In discussions with Mr. Bussey and

123

24

1 party to pay for the cleanup?

2 A. The allegedly responsible party at

3 that point has already indicated it wants to sit

4 down with DHEC and discuss future progress at

5 the site, including cleanup, prior to the date

6 of the DHEC referral to the EPA.

Q. So you're admitting that Exide is the

8 responsible party then?

9 A. No. I'm stating that Exide had

10 already stated to DHEC in writing that it was

11 willing to proceed with further action with the

12 site at its cost.

13 Q. Well, what if EPA and DHEC wanted to

14 know who the other sources are besides Exide?

15 A. If that's what they wanted to know,

16 then that would be an appropriate action, but

17 not one for which Exide ought to be responsible.

18 Q. Okay. So you just -- the complaint

19 is that you didn't want to pay for the NEIC

20 investigation?

1 A. The complaint is, that insofar as the

22 NEIC investigation was focused on proving

23 Exide's culpability or liability for lead levels

24 at Westgate Trailer Park, it was a waste of

1 Mr. Bright -- from discussions with Mr. Bussey

2 and Mr. Bright, I would infer that that was the

3 purpose of the NEIC investigation.

4 Q. Okay. Well, an inference is a little

5 different than them specifically telling you.

6 A. Mr. Bussey and Mr. Bright have

7 indicated that the reason the NEIC was asked to

3 do any work was because DHEC told EPA that Exide

9 had refused to proceed with cleanup at the site

10 as of February of 1997.

11 Q. Okay.

12 A. And that being the reported impetus

13 for the NEIC investigation, we conclude that we

14 are at least a principal, if not the target, of

15 the NEIC investigation.

16 Q. Okay. Who is Billy Bright -- well,

17 what is his job at the EPA?

18 A. I don't know his exact title. I

19 believe he's in the enforcement section or maybe

20 in the cost recovery section at Region 4.

21 Q. Okay. Well, what if the NEIC report

22 indicates that Exide is not a responsible party?

23 Wouldn't that be something that Exide wants to

24 know? I mean, then you wouldn't have to pay for

125

1 the cleanup.

2 A. Well, we've already done that, so it

wouldn't do much good for us.

Q. Would you want the NEIC to do a study 4

of King Acres or anything to maybe get you off

the hook for cleaning up King Acres?

7 A. Again, it's our position that any

work the NEIC has done and might do of a similar

nature in this area would be unnecessary.

10 Q. Because Exide is comitting to

11 cleaning up?

12 A. Exide has agreed, has repeatedly

13 agreed, offered, and continues to, to do

14 cleanups to appropriate levels.

15 Q. Okay. Why?

16 A. As I indicated earlier, we believe

17 that we have contributed to lead levels in these

18 areas.

19 Q. Okay.

20 (Whereupon, Exhibit 17 was marked

21 for identification.)

22 BY MR. MULLMAN:

Q. And, once again, I think a page

24 that's kind of had to be faxed to us was

126

ì MR. GEDDIE: Objection. I think 2

the letter speaks for itself, but answer it

3 if you can.

THE WITNESS: I believed it to be 4

5 consistent with -- and believe it to be

6 consistent with my understanding of how the

7 NEIC investigation started, as I stated in

8 my last answer, that it was a referral from

9 DHEC stating to EPA that Exide had refused

10 to proceed with the cleanup.

11 BY MR. MULLMAN:

12 Q. Okay. Well, does EPA agree with DHEC

assertions that EPA -- I mean that Exide was not

agreeing to clean up Westgate Trailer Park?

15 I don't know what EPA believes about

16 that.

17 Q. Okay. Well, in the second page, EPA

18 is --

20

23

1

2

19 The page marked No. 2 on the bottom?

Yes. EPA, Mr. Bussey, at least, from

21 the EPA, states, "This reply --"

22 A. I'm sorry. Where are you reading?

Middle to -- right in the middle of

24 the page in the paragraph "In its letter --"

127

1 missing. It was not connected. Is this

Mr. Bussey's letter in response to your May 28,

1999 letter?

A. That's what it states in the first

sentence, so I assume that's the case.

6 Q. And do you remember receiving this

7 letter?

15

8 Α. Yes.

9 Q. And does this letter indicate why

10 NEIC was involved?

11 A. Yes. It states EPA's explanation as

12 of that date for how -- at least how NEIC became

involved, not why.

14 Q. Okay. What's that explanation?

MR. GEDDIE: Doesn't the letter

16 speak for itself?

MR. MULLMAN: I want Mr. Levine's 17

18 interpretation of the letter.

19 THE WITNESS: Why don't -- well,

20 I can't -- I'm not sure what you mean by my

interpretation of the letter. 21

22 BY MR. MULLMAN:

23 Q. Well, when you read it, what did you

24 think it meant?

A. Oh, I see where you're reading from.

It says, "This reply falls somewhat

short of resounding assurance of Exide's

willingness to proceed with site cleanup, and

the claim made in the site investigation report,

that Exide did not contribute to lead

contamination in the trailer park was not

8 retracted."

9 So would you agree that EPA is kind

of agreeing with DHEC there, saying Exide hasn't

told us that they agreed to proceed with site

cleanup, at least as of this letter, June 21,

13 1999?

15

14 I think the letter speaks for itself.

Q. Okay. Well, did you ever -- or did

Exide ever retract the assertion in the site

investigation report that they did not

contribute to lead contamination in the trailer

19 park?

20 MR. GEDDIE: Objection to the

21 form of the question.

22 If you understand it, you can

23 answer it.

24 BY MR. MULLMAN:

129

- 1 Q. If you want me to rephrase it, that's 2 fine.
- 3 A. Please.
- 4 Q. Okay. Has Exide ever, in
- 5 correspondence or in conversations with EPA or
- 6 DHEC, have they ever retracted the statement
- 7 that's in the site investigation report stating
- 8 that they were not -- did not contribute to the
- 9 lead contamination in the trailer park?
- MR. GEDDIE: I object to the form of the question.
- 12 THE WITNESS: That's not what
- 13 this excerpt even says.
- 14 BY MR. MULLMAN:
- 15 Q. We're not talking about the excerpt.
- 16 We're talking about the question now. Did Exide
- 17 ever, in correspondence or conversation, tell
- 18 DHEC or EPA that they were a contributing factor
- 19 to the lead in Westgate Trailer Park?
- 20 A. Exide repeatedly offered to conduct a
- 21 cleanup for the Westgate -- for lead in soil at
- 22 the Westgate Trailer Park, notwithstanding the
- 23 perfectly valid technical point, which is made
- 24 in the excerpt in Exhibit 17, from which you

- 1 A. Since there's been no NEIC report, I
  - 2 don't know.
  - 3 Q. Well, there's been a draft, correct?
  - 4 A. As far as I know, yes.
  - 5 Q. And does that draft indicate who the 6 source is?
  - 7 A. No.
  - 8 Q. Okay. Lower down in the next
  - 9 paragraph, the last line, I know we've discuss
  - 10 this before, but it seems to be still an issue
  - 11 in this letter. "DHEC required a soil remova12 to a minimum of six inches instead of the
  - 13 three-inch depth proposed in Exide's July 19
  - 13 inree-inch depth proposed in Exide's July
  - 14 Remediation Plan."
  - 15 And I'm wondering, at this point,
  - 16 which was only a couple months before the
  - 17 cleanup, was DHEC still asking Exide to cle
  - 18 up to six inches?
  - 19 A. Yes, it was.
  - 20 Q. And when did they change their min
  - 21 on that?

131

- 22 A. Sometime prior to entry of the
- 23 Consent Agreement on August 5th -- or, I'm
- 24 sure it was prior to, but sometime in that
- Q. Okay. That doesn't really answer my
- 3 question though. Did Exide ever tell EPA or
- 4 DHEC that they were a contributing factor to the
- 5 lead in Westgate Trailer Park or King Acres
- 6 subdivision?

1 read earlier.

- 7 A. No.
- 8 Q. Okay. On Page 3, the third
- 9 paragraph, starting with, "Again -- " the second
- 10 line or in the second sentence it says, "Exide
- 11 continues to complain that lead in soils at
- 12 Westgate did not originate from the Exide plant,
- 13 yet DHEC persists in its demands for a cleanup
- , 14 plan from Exide."
- Do you agree with that sentence?
- 16 A. No.
- 17 Q. Okay. Why not?
- 18 A. Exide's position has not been that it
- 19 was not a contributing source, but rather, that
- 20 the variability of the data does not, in and of
- 21 itself, conclusively resolve the question as to
- 22 whether Exide is the sole source.
- 23 Q. And would the NEIC report
- 24 conclusively answer that question?

- 1 July/August time frame.
- Q. Okay. This letter is July 21st, so
- 3 sometime between -- I mean, I'm sorry. June
- 4 21st. So sometime between June 21st and Au
- 5 5th, they changed --
- 6 A. I'm sorry. I didn't mean to
- 7 interrupt.
- 8 Q. They changed their mind between tha
- 9 time period?
- 10 A. It may have been shortly after August
- 11 5th. I don't recall, frankly, whether it was
- 12 something covered in the Consent Agreement
- 13 the subsequent work plan.
- 14 Q. Was that part of Exide's willingness
- 15 to clean it up?
- MR. GEDDIE: I object to the
  - form.

- 18 THE WITNESS: I'm not sure what
- 19 you mean by was it part of Exide's --
- 20 MR. MULLMAN: I'll rephrase.
- 21 BY MR. MULLMAN:
- 22 Q. Would Exide have cleaned it up to six
- 23 inches if DHEC demanded it?
- 24 A. I don't know the answer to that. As

2

134

- 1 I said before, though, the resolution of that
- 2 question was one made by technical personnel at
- 3 DHEC and in discussing with AGC, not through or
- 4 by lawyers.
- 5 Q. Okay.
- 6 A. So I was not a party to that
- 7 discussion.
- 8 Q. Okay. That makes sense.
- 9 (Whereupon, Exhibit 18 was marked
- 10 for identification.)
- 11 BY MR. MULLMAN:
- 12 Q. This is a newspaper article in the
- 13 Greenville News, June 23, 1999. Do you remember
- 14 speaking to Bob Montgomery about this?
- 15 A. I've talked to Mr. Montgomery a
- 16 couple of times about the Westgate -- the
- 17 subject of Westgate.
- 18 Q. It mentions that -- if you see it,
- 19 your name right here.
- 20 A. Yes.
- 21 Q. That "Exide offered to do the cleanup
- 22 at a proposed level of 500 parts per million, a
- 23 standard EPA has used in a number of residential
- 24 areas in several states." Do you remember

- Q. Okav.
- (Whereupon, Exhibit 19 was marked

136

137

- 3 for identification.)
- 4 BY MR. MULLMAN:
- 5 Q. I'm showing you a newspaper article
- 6 dated June 25, 1999 from the Spartanburg Herald
- 7 Journal. On Page 2, they have some quotes,
- 8 which I believe are from you, Mr. Levine. Do
- 9 you remember talking to Susan Orr?
- 10 A. I've talked to Ms. Orr on a couple of
- 11 occasions. I don't recall specifically when
- 12 this conversation was.
- 13 Q. Okay. And, once again, it seems that
- 14 you were quoted as saying that the higher number
- 15 still would protect public health and 500 parts
- 16 per million has been the acceptable standard in
- 17 other cleanups Exide has done. Besides the two
- 18 you've mentioned, are there any other sites --
- 19 A. There are other -- I'm sorry --
  - Q. -- that you can think of?
- 21 A. There are other sites, but none that
- 22 I can recall sitting here right now.
- 23 Q. Okay. So is it fair to say that
- 24 you're using other sites that Exide cleaned up

135

- 1 making that statement?
- A. Yes.
- 3 Q. Okay. Do you know what other sites
- 4 or residential areas or what other states
- 5 they've used that in?
- 6 A. I know there are several. The one
- 7 that comes to mind right now is Granite City,
- 8 Illinois.
- 9 Q. And was that part of an Exide
- 10 cleanup?
- 11 A. Exide is participating in that
- 12 cleanup with a number of other potentially
- 13 responsible parties.
- 14 Q. Are there children with high lead
- 15 levels in those -- in that site?
- 16 A. I don't know. Assuming, by high lead
- 17 levels, you mean elevated above ten?
- 18 Q. Elevated.
- Well, do you know the sites that.
- 20 you're mentioning here, if there were kids with
- 21 elevated lead levels in all those sites, or in
- 22 any of those sites?
- A. Right now, I don't recall what the
- 24 blood lead levels were at those sites.

- 1 as relevant to what their standard should be in
- 2 this case?
- 3 A. Absent a site-specific analysis, yes.
- Q. Okay. And it says here, "We would
- 5 just like to know that there is a scientific
- 6 basis for a more strict cleanup, Levine said,"
- 7 correct? Is that what you told them?
- A. Yes.
- 9 Q. And you don't believe that Kevin
- 10 Koporec, a toxicologist for EPA, his memo, gives
- 11 you a scientific basis for that?
- 12 A. Mr. Koporec's memo does not provide
- 13 such a basis.
- 14 Q. Okay. And you said that the stricter
- 15 cleanup would cost about twice as much because
- 16 it would involve removing more soil. How is
- 17 that? Can you explain that? If you're going to
- 18 take three inches off, does it matter if four or
- 19 500?
- 20 A. At the time that this article was
- 21 written, and, therefore, at the time I spoke to
- 22 Ms. Orr, the discussion between ourselves and
- 23 DHEC was over whether the cleanup level was
- 24 400 or 500, and not a wholesale removal of soil.

	1
1 And shorefore a laws - leave 1	138 140
1 And therefore, a lower cleanup level n	(
2 requires removal of more soil.	concluded at 3:15 p.m.)
3 Q. Okay. Well, was there a whol	; =
4 removal of soil at Westgate?	4 5
5 A. Yes, there was.	
6 Q. Okay.	6
7 A. About three months after this	
8 was written.	. 8
9 Q. Okay. So you've removed all	
10 inches from the whole Westgate Trail	
11 that	11
12 A. I don't recall if there was an ar	
13 that was not included or not, but certa	
14 the areas where the trailers are placed.	\ _ ·
15 people reside.	15
16 Q. Okay. What about underneath	
17 trailers?	17
18 A. There was an analysis made	
19 did not do a wholesale removal of soil	
20 trailers.	20
21 Q. Okay. You just cemented tho	
22 A. Certain areas, yes.	22
Q. And did you rely on an expert	
24 consultant to make the decision to cen	nent those 24
	139
1 areas up instead of remove the soil?	1
2 A. I did rely on a consultant in r	naking 2 INSTRUCTIONS TO WITNESS
3 that decision, yes.	3
	· · · · · · · · · · · · · · · · · · ·
4 Q. Okay. Did you make that de	
4 Q. Okay. Did you make that de 5 was it somebody else?	
· · · · · · · · · · · · · · · · · · ·	cision or 4 Please read your deposition over carefully
5 was it somebody else?	5 and make any necessary corrections. You should 6 state the reason in the appropriate space on the
<ul><li>5 was it somebody else?</li><li>6 A. I made that decision.</li></ul>	5 and make any necessary corrections. You should 6 state the reason in the appropriate space on the
<ul> <li>5 was it somebody else?</li> <li>6 A. I made that decision.</li> <li>7 Q. Okay. Who did you rely upon</li> </ul>	Please read your deposition over carefully and make any necessary corrections. You should state the reason in the appropriate space on the rerrata sheet for any correction that is made. After doing so, please sign the errata
<ul> <li>5 was it somebody else?</li> <li>6 A. I made that decision.</li> <li>7 Q. Okay. Who did you rely upon</li> <li>8 A. Advanced Geo Services.</li> </ul>	Please read your deposition over carefully and make any necessary corrections. You should state the reason in the appropriate space on the rerrata sheet for any correction that is made. After doing so, please sign the errata
<ul> <li>5 was it somebody else?</li> <li>6 A. I made that decision.</li> <li>7 Q. Okay. Who did you rely upon</li> <li>8 A. Advanced Geo Services.</li> <li>9 Q. And what scientific basis did</li> </ul>	Please read your deposition over carefully  and make any necessary corrections. You should  state the reason in the appropriate space on the  remarkance of the remaining space of the state the reason in the appropriate space on the  remarkance of the remaining space of the state of the remaining space of the remaining s
<ul> <li>5 was it somebody else?</li> <li>6 A. I made that decision.</li> <li>7 Q. Okay. Who did you rely upon</li> <li>8 A. Advanced Geo Services.</li> <li>9 Q. And what scientific basis did</li> <li>10 give you for that?</li> </ul>	Please read your deposition over carefully and make any necessary corrections. You should state the reason in the appropriate space on the rerrata sheet for any correction that is made. After doing so, please sign the errata they sheet and date it. You are signing same subject to the centific 11 changes you have noted on the errata sheet,
<ul> <li>5 was it somebody else?</li> <li>6 A. I made that decision.</li> <li>7 Q. Okay. Who did you rely upon</li> <li>8 A. Advanced Geo Services.</li> <li>9 Q. And what scientific basis did</li> <li>10 give you for that?</li> <li>11 A. The best summary of the scientific basis</li> </ul>	Please read your deposition over carefully and make any necessary corrections. You should state the reason in the appropriate space on the rerrata sheet for any correction that is made. After doing so, please sign the errata they sheet and date it. You are signing same subject to the centific 11 changes you have noted on the errata sheet,
<ul> <li>5 was it somebody else?</li> <li>6 A. I made that decision.</li> <li>7 Q. Okay. Who did you rely upon</li> <li>8 A. Advanced Geo Services.</li> <li>9 Q. And what scientific basis did</li> <li>10 give you for that?</li> <li>11 A. The best summary of the scientific analysis is the letters that they sent to</li> </ul>	Please read your deposition over carefully and make any necessary corrections. You should state the reason in the appropriate space on the regretary regretary corrections. You should state the reason in the appropriate space on the regretary regretary regretary regretary regretary regretary regretary.  After doing so, please sign the errata sheet and date it. You are signing same subject to the regretary regretary regretary regretary regretary regretary regretary.  Scott It is imperative that you return the
5 was it somebody else? 6 A. I made that decision. 7 Q. Okay. Who did you rely upon a services. 9 Q. And what scientific basis did not some you for that? 11 A. The best summary of the scientific analysis is the letters that they sent to summary of the scientific basis did not service you for that?	Please read your deposition over carefully and make any necessary corrections. You should state the reason in the appropriate space on the regretary correction that is made. After doing so, please sign the errata they sheet and date it. You are signing same subject to the chiffic 11 changes you have noted on the errata sheet, Scott 12 which will be attached to your deposition. 13 It is imperative that you return the narized 14 original errata sheet to the deposing attorney
5 was it somebody else? 6 A. I made that decision. 7 Q. Okay. Who did you rely upon a services. 9 Q. And what scientific basis did not some a services. 10 give you for that? 11 A. The best summary of the scient analysis is the letters that they sent to not service. 13 Wilson explaining their analysis. 14 There was one letter that summary.	Please read your deposition over carefully and make any necessary corrections. You should state the reason in the appropriate space on the regretary regretary corrections. You should state the reason in the appropriate space on the regretary regretary regretary regretary regretary regretary regretary.  After doing so, please sign the errata sheet and date it.  You are signing same subject to the characteristic limits and the regretary regretary regretary regretary regretary.  Scott limits imperative that you return the regretary regretary regretary regretary regretary regretary regretary.  It is imperative that you return the regretary re
5 was it somebody else? 6 A. I made that decision. 7 Q. Okay. Who did you rely upon a services. 9 Q. And what scientific basis did not some a services. 10 give you for that? 11 A. The best summary of the scient analysis is the letters that they sent to not service. 12 Wilson explaining their analysis. 13 Wilson explaining their analysis. 14 There was one letter that summary it, and there was another letter when	Please read your deposition over carefully and make any necessary corrections. You should state the reason in the appropriate space on the regretary regretary corrections. You should state the reason in the appropriate space on the regretary regretary regretary regretary regretary.  After doing so, please sign the errata sheet and date it.  You are signing same subject to the changes you have noted on the errata sheet, which will be attached to your deposition.  It is imperative that you return the regretary regretary regretary regretary regretary regretary regretary regretary regretary.  Scott Is imperative that you return the regretary
5 was it somebody else? 6 A. I made that decision. 7 Q. Okay. Who did you rely upon a services. 9 Q. And what scientific basis did not some you for that? 11 A. The best summary of the scient analysis is the letters that they sent to not service was one letter that summary it, and there was another letter when asked them to evaluate that remedy it.	Please read your deposition over carefully and make any necessary corrections. You should state the reason in the appropriate space on the regreta sheet for any correction that is made. After doing so, please sign the errata sheet and date it. You are signing same subject to the character to the deposition. It is imperative that you return the marized Scott 15 within thirty (30) days of receipt of the light of the deposition transcript by you. If you fail to do there was 17 so, the deposition transcript may be deemed to
5 was it somebody else? 6 A. I made that decision. 7 Q. Okay. Who did you rely upon a services. 9 Q. And what scientific basis did not some a services. 10 give you for that? 11 A. The best summary of the scient analysis is the letters that they sent to not service analysis is the letters that they sent to not service analysis. 14 There was one letter that summary it, and there was another letter when not saked them to evaluate that remedy it certain criteria DHEC identified, and	Please read your deposition over carefully and make any necessary corrections. You should state the reason in the appropriate space on the errata sheet for any correction that is made. After doing so, please sign the errata  sheet and date it. You are signing same subject to the chiffic 11 changes you have noted on the errata sheet, which will be attached to your deposition. It is imperative that you return the narized 14 original errata sheet to the deposing attorney within thirty (30) days of receipt of the fight of 16 deposition transcript by you. If you fail to do there was alyzed that 18 be accurate and may be used in court.
5 was it somebody else? 6 A. I made that decision. 7 Q. Okay. Who did you rely upon a services. 9 Q. And what scientific basis did a give you for that? 11 A. The best summary of the scient analysis is the letters that they sent to a wilson explaining their analysis. 14 There was one letter that summary it, and there was another letter when a sked them to evaluate that remedy it certain criteria DHEC identified, and a subsequent letter in which AGC and	Please read your deposition over carefully and make any necessary corrections. You should state the reason in the appropriate space on the regretary errates sheet for any correction that is made. After doing so, please sign the errate sheet and date it. You are signing same subject to the character to the errate sheet, Scott to the service that you return the the sheet and the transport of the deposition transcript by you. If you fail to do there was alyzed that the service that you read to the deposition transcript may be deemed to the sheet and may be used in court.  After doing so, please sign the errate sheet, the sheet and date it.  You are signing same subject to the the errate sheet, the sheet and the sheet and the sheet and the sheet are sheet to the deposition. The sheet and sheet to the deposition the deposition transcript may be deemed to the sheet and may be used in court.  The sheet and may be used in court.
5 was it somebody else? 6 A. I made that decision. 7 Q. Okay. Who did you rely upon a services. 9 Q. And what scientific basis did a give you for that? 11 A. The best summary of the scient analysis is the letters that they sent to a wilson explaining their analysis. 14 There was one letter that summary it, and there was another letter when a sked them to evaluate that remedy it certain criteria DHEC identified, and a subsequent letter in which AGC and method in light of the criteria specific	Please read your deposition over carefully and make any necessary corrections. You should state the reason in the appropriate space on the regretary errates sheet for any correction that is made. After doing so, please sign the errate sheet and date it. You are signing same subject to the character to the errate sheet, Scott to the service that you return the the sheet and the transport of the deposition transcript by you. If you fail to do there was alyzed that the service that you read to the deposition transcript may be deemed to the sheet and may be used in court.  After doing so, please sign the errate sheet, the sheet and date it.  You are signing same subject to the the errate sheet, the sheet and the sheet and the sheet and the sheet are sheet to the deposition. The sheet and sheet to the deposition the deposition transcript may be deemed to the sheet and may be used in court.  The sheet and may be used in court.
5 was it somebody else? 6 A. I made that decision. 7 Q. Okay. Who did you rely upon a services. 9 Q. And what scientific basis did not some analysis did not services. 10 give you for that? 11 A. The best summary of the science analysis is the letters that they sent to not summary of the science analysis is the letters that they sent to not service analysis. 14 There was one letter that summary of the science analysis. 15 it, and there was another letter when not saked them to evaluate that remedy in the certain criteria DHEC identified, and not subsequent letter in which AGC and not method in light of the criteria specification. 18 a subsequent letter in which AGC and not method in light of the criteria specification.	Please read your deposition over carefully and make any necessary corrections. You should state the reason in the appropriate space on the errata sheet for any correction that is made. After doing so, please sign the errata sheet and date it. You are signing same subject to the character to the deposition. It is imperative that you return the marized sheet to the deposing attorney sheet and date it. It is imperative that you return the original errata sheet to the deposing attorney within thirty (30) days of receipt of the deposition transcript by you. If you fail to do there was alyzed that the deposition transcript may be deemed to
5 was it somebody else? 6 A. I made that decision. 7 Q. Okay. Who did you rely upon a services. 9 Q. And what scientific basis did give you for that? 11 A. The best summary of the scient analysis is the letters that they sent to a wilson explaining their analysis. 14 There was one letter that summary it, and there was another letter when asked them to evaluate that remedy it certain criteria DHEC identified, and a subsequent letter in which AGC and method in light of the criteria specification. 18 MR. MULLMAN: Okay. 21 for me.	Please read your deposition over carefully and make any necessary corrections. You should state the reason in the appropriate space on the errata sheet for any correction that is made. After doing so, please sign the errata sheet and date it. You are signing same subject to the character to the deposition. It is imperative that you return the marized sheet to the deposing attorney sheet and date it. It is imperative that you return the original errata sheet to the deposing attorney within thirty (30) days of receipt of the deposition transcript by you. If you fail to do there was alyzed that the deposition transcript may be deemed to
5 was it somebody else? 6 A. I made that decision. 7 Q. Okay. Who did you rely upon a A. Advanced Geo Services. 9 Q. And what scientific basis did 10 give you for that? 11 A. The best summary of the scient analysis is the letters that they sent to 13 Wilson explaining their analysis. 14 There was one letter that summare it, and there was another letter when 15 it, and there was another letter when 16 asked them to evaluate that remedy in 17 certain criteria DHEC identified, and 18 a subsequent letter in which AGC an 19 method in light of the criteria specific MR. MULLMAN: Okay. 21 for me. 22 MR. GEDDIE: All right. I	Please read your deposition over carefully and make any necessary corrections. You should state the reason in the appropriate space on the errata sheet for any correction that is made. After doing so, please sign the errata  sheet and date it. You are signing same subject to the character of the sheet and the sheet and the sheet and the sheet are sheet and the sheet and the sheet and the sheet are sheet and the sheet a

ACKNOWLEDGEMENT OF DEPONENT  I, ARI D. LEVINE, ESQUIRE, do hereby certify that I have read the foregoing pages,  I - 140, and that the same is a correct transcription of the answers given by me to the questions therein propounded, except for the corrections or changes in form or substance, if any noted in the attached Errata Sheet.  DATE  Subscribed and sworn to before me this day of, 1999. My commission expires:	I hereby certify that the witness was duly sworn by me and that the deposition is a true record of the testimony given by the witness.  Sheila G. Malen, RPR Date: November 5, 1999  (The foregoing certification of this transcript does not apply to any reproduction of the same by any means, unless under the direct control and/or supervision of the certifying shorthand reporter.)  and/or supervision of the certifying shorthand reporter.)
1	

				<del></del>	
	20.10.10	62.22 120.0	aim 20.5 44.10	06.12 120.2 0	5:0 142:2
A	38:10,18	62:23 139:8	air 39:5 44:10	86:12 128:2,8	5:9 142:3
able 45:21	39:18 42:3,17	advise 6:11	44:13,19,23	129:23 131:2	around 43:11
46:23 70:9	42:23 43:1	<b>Affairs</b> 8:7 40:8	45:3 81:11,14	131:24 133:24	75:24 76:3,4
118:6	44:11 46:15	40:19	85:19,24	answered 100:1	Arthur 46:2
about 6:3,12	46:22 47:2	affect 104:6	87:15 89:1	121:12	article 3:12 4:6
8:2,22 13:9,18	48:10 49:2	after 5:9 8:24	Akin 78:1	answers 142:6	4:7 53:9,16
1	51:20 52:17	21:15 22:5,6	Alan 46:3	ANTHONY 1:4	134:12 136:5
15:20 17:18				anthropogenic	
18:8 28:2	59:7,12,14	35:21 83:8	allegations 10:1		137:20 138:7
29:10,12,14	62:11,19	98:7 102:23	17:12,15 28:8	23:8,12 92:23	asked 23:17
29:20,22	63:12,13,21	133:10 138:7	28:11 43:14	93:2	41:13 42:9,14
33:17 35:2	64:14,18,21	141:8	43:17 55:14	anybody 21:18	42:15 46:2,4
36:2,21 39:12	64:24 65:23	again 19:3 28:4	66:21	21:21 31:2,5	57:20 62:8,13
41:4,8,14,19	66:8,20 67:8	29:13 30:1	allege 47:5,6	64:1	69:2,20 72:8
	67:12 68:6	42:10,15	68:23	anyone 32:20	79:18 80:1
41:21 45:2,5	69:18 73:4	58:12 67:18	alleged 28:14	34:3 55:2	100:9 116:14
45:22,24 46:7	1	72:5 81:13	47:2 86:3	anything 15:21	116:16 119:11
46:20 50:11	97:22 101:20				
51:2 52:19	102:2,13,16	92:15 97:3	allegedly 123:2	31:23 56:3	119:14 120:21
53:18 54:24	103:2,8,22	126:7,23	alleging 27:19	95:9 121:9	125:7 139:16
56:3 57:17	104:7,11,17	131:9 136:13	73:15	126:5	asking 18:19
62:1 64:1 65:7	105:11 106:23	against 10:5	allow 34:23	anywhere 23:8	56:1,5 58:3
66:8,20 67:21	107:7 111:23	27:19	63:3 105:18	apparently	132:17
	116:3,19	AGC 11:12,13	allowed 17:19	12:2	asserted 32:14
68:8 69:3,7,18	117:7,13	13:24 34:18	95:7,8 104:13	appears 12:15	72:14
69:20,22 72:7	118:7 126:5,6		along 37:20	21:12 77:23	assertion 85:18
: 75:15 83:15		63:1,5,10 68:2			
84:21 85:16	131:5	70:4,7 109:22	54:11 93:20	79:16	129:16
. 87:15,21	across 90:19	109:23 110:7	93:21 96:20	application	assertions
89:23 91:3	Act 78:8	110:15,17	aiready 58:18	12:23	128:13
94:6 97:7 99:7	action 29:21	112:10,16,18	81:5 92:14	applied 12:6	assessed 62:4
99:22 100:13	72:12 98:7	118:9,12	103:10 123:3	apply 12:5	assessment
101:19 110:6	123:11,16	134:3 139:18	123:10 126:2	14:12 144:12	64:7 82:13
111:12,23	activity 32:9,11	AGC's 63:16	alter 114:12	appropriate	104:11,14
111.12,23	33:5 83:12				
			Sitebed (V.1)		SECRET LATERA S
112:17 115:24		64:1 80:5	altered 16:12	13:3,13 16:20	assist 120:23
120:12,16	actual 79:12,14	agencies 66:15	37:8	25:17 74:2	assistant 7:19
120:12,16 122:11 128:15	actual 79:12,14 124:16	agencies 66:15 111:22	37:8 amending	25:17 74:2 113:17 116:12	assistant 7:19 8:3,23 21:24
120:12,16	actual 79:12,14 124:16 actually 13:16	agencies 66:15 111:22 agency 16:7,19	37:8 amending 16:11	25:17 74:2 113:17 116:12 119:8 123:16	<b>assistant</b> 7:19 8:3,23 21:24 46:4,9
120:12,16 122:11 128:15 130:15,16	actual 79:12,14 124:16 actually 13:16 31:16 54:9	agencies 66:15 111:22 agency 16:7,19 106:2,3	37:8 amending 16:11 America 40:14	25:17 74:2 113:17 116:12 119:8 123:16 126:14 141:6	assistant 7:19 8:3,23 21:24 46:4,9 associated
120:12,16 122:11 128:15 130:15,16 134:14,16	actual 79:12,14 124:16 actually 13:16	agencies 66:15 111:22 agency 16:7,19	37:8 amending 16:11	25:17 74:2 113:17 116:12 119:8 123:16	<b>assistant</b> 7:19 8:3,23 21:24 46:4,9
120:12,16 122:11 128:15 130:15,16 134:14,16 137:15 138:7	actual 79:12,14 124:16 actually 13:16 31:16 54:9	agencies 66:15 111:22 agency 16:7,19 106:2,3	37:8 amending 16:11 America 40:14	25:17 74:2 113:17 116:12 119:8 123:16 126:14 141:6	assistant 7:19 8:3,23 21:24 46:4,9 associated
120:12,16 122:11 128:15 130:15,16 134:14,16 137:15 138:7 138:16	actual 79:12,14 124:16 actually 13:16 31:16 54:9 59:1 63:10 77:11 78:23	agencies 66:15 111:22 agency 16:7,19 106:2,3 108:11,21,22 111:20 112:3	37:8 amending 16:11 America 40:14 among 5:3 43:15 90:4	25:17 74:2 113:17 116:12 119:8 123:16 126:14 141:6 approval 115:10	assistant 7:19 8:3,23 21:24 46:4,9 associated 37:23
120:12,16 122:11 128:15 130:15,16 134:14,16 137:15 138:7 138:16 above 1:16 20:3	actual 79:12,14 124:16 actually 13:16 31:16 54:9 59:1 63:10 77:11 78:23 81:2	agencies 66:15 111:22 agency 16:7,19 106:2,3 108:11,21,22 111:20 112:3 112:23,24	37:8 amending 16:11 America 40:14 among 5:3 43:15 90:4 amount 44:3	25:17 74:2 113:17 116:12 119:8 123:16 126:14 141:6 approval 115:10 approved 12:2	assistant 7:19 8:3,23 21:24 46:4,9 associated 37:23 associates 2:2 52:9 54:14
120:12,16 122:11 128:15 130:15,16 134:14,16 137:15 138:7 138:16 above 1:16 20:3 57:3,4 105:21	actual 79:12,14 124:16 actually 13:16 31:16 54:9 59:1 63:10 77:11 78:23 81:2 Act's 85:20	agencies 66:15 111:22 agency 16:7,19 106:2,3 108:11,21,22 111:20 112:3 112:23,24 113:6	37:8 amending 16:11 America 40:14 among 5:3 43:15 90:4 amount 44:3 61:12,21 62:6	25:17 74:2 113:17 116:12 119:8 123:16 126:14 141:6 approval 115:10 approved 12:2 36:6,7 70:8	assistant 7:19 8:3,23 21:24 46:4,9 associated 37:23 associates 2:2 52:9 54:14 association
120:12,16 122:11 128:15 130:15,16 134:14,16 137:15 138:7 138:16 above 1:16 20:3 57:3,4 105:21 109:13 135:17	actual 79:12,14 124:16 actually 13:16 31:16 54:9 59:1 63:10 77:11 78:23 81:2 Act's 85:20 add 31:23 33:2	agencies 66:15 111:22 agency 16:7,19 106:2,3 108:11,21,22 111:20 112:3 112:23,24 113:6 agree 19:24	37:8 amending 16:11 America 40:14 among 5:3 43:15 90:4 amount 44:3 61:12,21 62:6 amounts 27:20	25:17 74:2 113:17 116:12 119:8 123:16 126:14 141:6 approval 115:10 approved 12:2 36:6,7 70:8 approves 70:10	assistant 7:19 8:3,23 21:24 46:4,9 associated 37:23 associates 2:2 52:9 54:14 association 75:1,4
120:12,16 122:11 128:15 130:15,16 134:14,16 137:15 138:7 138:16 above 1:16 20:3 57:3,4 105:21 109:13 135:17 absence 114:18	actual 79:12,14 124:16 actually 13:16 31:16 54:9 59:1 63:10 77:11 78:23 81:2 Act's 85:20 add 31:23 33:2 addition 8:8 9:1	agencies 66:15 111:22 agency 16:7,19 106:2,3 108:11,21,22 111:20 112:3 112:23,24 113:6 agree 19:24 24:11,14 25:5	37:8 amending 16:11 America 40:14 among 5:3 43:15 90:4 amount 44:3 61:12,21 62:6 amounts 27:20 analyses 27:6	25:17 74:2 113:17 116:12 119:8 123:16 126:14 141:6 approval 115:10 approved 12:2 36:6,7 70:8 approves 70:10 approximately	assistant 7:19 8:3,23 21:24 46:4,9 associated 37:23 associates 2:2 52:9 54:14 association 75:1,4 assume 39:20
120:12,16 122:11 128:15 130:15,16 134:14,16 137:15 138:7 138:16 above 1:16 20:3 57:3,4 105:21 109:13 135:17 absence 114:18 Absent 137:3	actual 79:12,14 124:16 actually 13:16 31:16 54:9 59:1 63:10 77:11 78:23 81:2 Act's 85:20 add 31:23 33:2 addition 8:8 9:1 12:10 60:13	agencies 66:15 111:22 agency 16:7,19 106:2,3 108:11,21,22 111:20 112:3 112:23,24 113:6 agree 19:24 24:11,14 25:5 33:12 51:11	37:8 amending 16:11 America 40:14 among 5:3 43:15 90:4 amount 44:3 61:12,21 62:6 amounts 27:20 analyses 27:6 27:13 37:18	25:17 74:2 113:17 116:12 119:8 123:16 126:14 141:6 approval 115:10 approved 12:2 36:6,7 70:8 approves 70:10 approximately 33:21 65:13	assistant 7:19 8:3,23 21:24 46:4,9 associated 37:23 associates 2:2 52:9 54:14 association 75:1,4 assume 39:20 69:20 78:2
120:12,16 122:11 128:15 130:15,16 134:14,16 137:15 138:7 138:16 above 1:16 20:3 57:3,4 105:21 109:13 135:17 absence 114:18 Absent 137:3 abuse 55:10,13	actual 79:12,14 124:16 actually 13:16 31:16 54:9 59:1 63:10 77:11 78:23 81:2 Act's 85:20 add 31:23 33:2 addition 8:8 9:1 12:10 60:13 93:18	agencies 66:15 111:22 agency 16:7,19 106:2,3 108:11,21,22 111:20 112:3 112:23,24 113:6 agree 19:24 24:11,14 25:5 33:12 51:11 85:17 88:15	37:8 amending 16:11 America 40:14 among 5:3 43:15 90:4 amount 44:3 61:12,21 62:6 amounts 27:20 analyses 27:6 27:13 37:18 analysis 22:24	25:17 74:2 113:17 116:12 119:8 123:16 126:14 141:6 approval 115:10 approved 12:2 36:6,7 70:8 approves 70:10 approximately 33:21 65:13 72:4,9	assistant 7:19 8:3,23 21:24 46:4,9 associated 37:23 associates 2:2 52:9 54:14 association 75:1,4 assume 39:20 69:20 78:2 79:6 88:3
120:12,16 122:11 128:15 130:15,16 134:14,16 137:15 138:7 138:16 above 1:16 20:3 57:3,4 105:21 109:13 135:17 absence 114:18 Absent 137:3	actual 79:12,14 124:16 actually 13:16 31:16 54:9 59:1 63:10 77:11 78:23 81:2 Act's 85:20 add 31:23 33:2 addition 8:8 9:1 12:10 60:13 93:18 additional	agencies 66:15 111:22 agency 16:7,19 106:2,3 108:11,21,22 111:20 112:3 112:23,24 113:6 agree 19:24 24:11,14 25:5 33:12 51:11 85:17 88:15 90:12 91:18	37:8 amending 16:11 America 40:14 among 5:3 43:15 90:4 amount 44:3 61:12,21 62:6 amounts 27:20 analyses 27:6 27:13 37:18 analysis 22:24 24:15 25:7	25:17 74:2 113:17 116:12 119:8 123:16 126:14 141:6 approval 115:10 approved 12:2 36:6,7 70:8 approves 70:10 approximately 33:21 65:13 72:4,9 April 35:16,20	assistant 7:19 8:3,23 21:24 46:4,9 associated 37:23 associates 2:2 52:9 54:14 association 75:1,4 assume 39:20 69:20 78:2 79:6 88:3 111:2 127:5
120:12,16 122:11 128:15 130:15,16 134:14,16 137:15 138:7 138:16 above 1:16 20:3 57:3,4 105:21 109:13 135:17 absence 114:18 Absent 137:3 abuse 55:10,13	actual 79:12,14 124:16 actually 13:16 31:16 54:9 59:1 63:10 77:11 78:23 81:2 Act's 85:20 add 31:23 33:2 addition 8:8 9:1 12:10 60:13 93:18 additional 116:2,19	agencies 66:15 111:22 agency 16:7,19 106:2,3 108:11,21,22 111:20 112:3 112:23,24 113:6 agree 19:24 24:11,14 25:5 33:12 51:11 85:17 88:15 90:12 91:18 96:6 97:15	37:8 amending 16:11 America 40:14 among 5:3 43:15 90:4 amount 44:3 61:12,21 62:6 amounts 27:20 analyses 27:6 27:13 37:18 analysis 22:24 24:15 25:7 27:3,10 51:6	25:17 74:2 113:17 116:12 119:8 123:16 126:14 141:6 approval 115:10 approved 12:2 36:6,7 70:8 approves 70:10 approximately 33:21 65:13 72:4,9 April 35:16,20 96:21	assistant 7:19 8:3,23 21:24 46:4,9 associated 37:23 associates 2:2 52:9 54:14 association 75:1,4 assume 39:20 69:20 78:2 79:6 88:3 111:2 127:5 assumed 8:6,24
120:12,16 122:11 128:15 130:15,16 134:14,16 137:15 138:7 138:16 above 1:16 20:3 57:3,4 105:21 109:13 135:17 absence 114:18 Absent 137:3 abuse 55:10,13 accept 63:17 acceptable 12:2	actual 79:12,14 124:16 actually 13:16 31:16 54:9 59:1 63:10 77:11 78:23 81:2 Act's 85:20 add 31:23 33:2 addition 8:8 9:1 12:10 60:13 93:18 additional	agencies 66:15 111:22 agency 16:7,19 106:2,3 108:11,21,22 111:20 112:3 112:23,24 113:6 agree 19:24 24:11,14 25:5 33:12 51:11 85:17 88:15 90:12 91:18 96:6 97:15 98:8 106:13	37:8 amending 16:11 America 40:14 among 5:3 43:15 90:4 amount 44:3 61:12,21 62:6 amounts 27:20 analyses 27:6 27:13 37:18 analysis 22:24 24:15 25:7	25:17 74:2 113:17 116:12 119:8 123:16 126:14 141:6 approval 115:10 approved 12:2 36:6,7 70:8 approves 70:10 approximately 33:21 65:13 72:4,9 April 35:16,20	assistant 7:19 8:3,23 21:24 46:4,9 associated 37:23 associates 2:2 52:9 54:14 association 75:1,4 assume 39:20 69:20 78:2 79:6 88:3 111:2 127:5
120:12,16 122:11 128:15 130:15,16 134:14,16 137:15 138:7 138:16 above 1:16 20:3 57:3,4 105:21 109:13 135:17 absence 114:18 Absent 137:3 abuse 55:10,13 accept 63:17 acceptable 12:2 136:16	actual 79:12,14 124:16 actually 13:16 31:16 54:9 59:1 63:10 77:11 78:23 81:2 Act's 85:20 add 31:23 33:2 addition 8:8 9:1 12:10 60:13 93:18 additional 116:2,19	agencies 66:15 111:22 agency 16:7,19 106:2,3 108:11,21,22 111:20 112:3 112:23,24 113:6 agree 19:24 24:11,14 25:5 33:12 51:11 85:17 88:15 90:12 91:18 96:6 97:15	37:8 amending 16:11 America 40:14 among 5:3 43:15 90:4 amount 44:3 61:12,21 62:6 amounts 27:20 analyses 27:6 27:13 37:18 analysis 22:24 24:15 25:7 27:3,10 51:6	25:17 74:2 113:17 116:12 119:8 123:16 126:14 141:6 approval 115:10 approved 12:2 36:6,7 70:8 approves 70:10 approximately 33:21 65:13 72:4,9 April 35:16,20 96:21	assistant 7:19 8:3,23 21:24 46:4,9 associated 37:23 associates 2:2 52:9 54:14 association 75:1,4 assume 39:20 69:20 78:2 79:6 88:3 111:2 127:5 assumed 8:6,24
120:12,16 122:11 128:15 130:15,16 134:14,16 137:15 138:7 138:16 above 1:16 20:3 57:3,4 105:21 109:13 135:17 absence 114:18 Absent 137:3 abuse 55:10,13 accept 63:17 acceptable 12:2 136:16 accompanying	actual 79:12,14 124:16 actually 13:16 31:16 54:9 59:1 63:10 77:11 78:23 81:2 Act's 85:20 add 31:23 33:2 addition 8:8 9:1 12:10 60:13 93:18 additional 116:2,19 117:5 118:2,5 address 33:9	agencies 66:15 111:22 agency 16:7,19 106:2,3 108:11,21,22 111:20 112:3 112:23,24 113:6 agree 19:24 24:11,14 25:5 33:12 51:11 85:17 88:15 90:12 91:18 96:6 97:15 98:8 106:13 113:16 116:13	37:8 amending 16:11 America 40:14 among 5:3 43:15 90:4 amount 44:3 61:12,21 62:6 amounts 27:20 analyses 27:6 27:13 37:18 analysis 22:24 24:15 25:7 27:3,10 51:6 58:10 63:1 80:5 84:4	25:17 74:2 113:17 116:12 119:8 123:16 126:14 141:6 approval 115:10 approved 12:2 36:6,7 70:8 approvimately 33:21 65:13 72:4,9 April 35:16,20 96:21 area 32:6,8 33:10 44:14	assistant 7:19 8:3,23 21:24 46:4,9 associated 37:23 associates 2:2 52:9 54:14 association 75:1,4 assume 39:20 69:20 78:2 79:6 88:3 111:2 127:5 assumed 8:6,24 assuming 17:5
120:12,16 122:11 128:15 130:15,16 134:14.16 137:15 138:7 138:16 above 1:16 20:3 57:3,4 105:21 109:13 135:17 absence 114:18 Absent 137:3 abuse 55:10,13 accept 63:17 acceptable 12:2 136:16 accompanying 120:17	actual 79:12,14 124:16 actually 13:16 31:16 54:9 59:1 63:10 77:11 78:23 81:2 Act's 85:20 add 31:23 33:2 addition 8:8 9:1 12:10 60:13 93:18 additional 116:2,19 117:5 118:2,5 address 33:9 57:8 59:11	agencies 66:15 111:22 agency 16:7,19 106:2,3 108:11,21,22 111:20 112:3 112:23,24 113:6 agree 19:24 24:11,14 25:5 33:12 51:11 85:17 88:15 90:12 91:18 96:6 97:15 98:8 106:13 113:16 116:13 128:12 129:9	37:8 amending 16:11 America 40:14 among 5:3 43:15 90:4 amount 44:3 61:12,21 62:6 amounts 27:20 analyses 27:6 27:13 37:18 analysis 22:24 24:15 25:7 27:3,10 51:6 58:10 63:1 80:5 84:4 137:3 138:18	25:17 74:2 113:17 116:12 119:8 123:16 126:14 141:6 approval 115:10 approved 12:2 36:6,7 70:8 approves 70:10 approximately 33:21 65:13 72:4,9 April 35:16,20 96:21 area 32:6,8 33:10 44:14 52:17 69:13	assistant 7:19 8:3,23 21:24 46:4,9 associated 37:23 associates 2:2 52:9 54:14 association 75:1,4 assume 39:20 69:20 78:2 79:6 88:3 111:2 127:5 assumed 8:6,24 assuming 17:5 25:7 51:6 83:24 84:3
120:12,16 122:11 128:15 130:15,16 134:14.16 137:15 138:7 138:16 above 1:16 20:3 57:3,4 105:21 109:13 135:17 absence 114:18 Absent 137:3 abuse 55:10,13 accept 63:17 acceptable 12:2 136:16 accompanying 120:17 according	actual 79:12,14 124:16 actually 13:16 31:16 54:9 59:1 63:10 77:11 78:23 81:2 Act's 85:20 add 31:23 33:2 addition 8:8 9:1 12:10 60:13 93:18 additional 116:2,19 117:5 118:2,5 address 33:9 57:8 59:11 121:9	agencies 66:15 111:22 agency 16:7,19 106:2,3 108:11,21,22 111:20 112:3 112:23,24 113:6 agree 19:24 24:11,14 25:5 33:12 51:11 85:17 88:15 90:12 91:18 96:6 97:15 98:8 106:13 113:16 116:13 128:12 129:9 131:15	37:8 amending 16:11 America 40:14 among 5:3 43:15 90:4 amount 44:3 61:12,21 62:6 amounts 27:20 analyses 27:6 27:13 37:18 analysis 22:24 24:15 25:7 27:3,10 51:6 58:10 63:1 80:5 84:4 137:3 138:18 139:12,13	25:17 74:2 113:17 116:12 119:8 123:16 126:14 141:6 approval 115:10 approved 12:2 36:6,7 70:8 approves 70:10 approximately 33:21 65:13 72:4,9 April 35:16,20 96:21 area 32:6,8 33:10 44:14 52:17 69:13 126:9 138:12	assistant 7:19 8:3,23 21:24 46:4,9 associated 37:23 associates 2:2 52:9 54:14 association 75:1,4 assume 39:20 69:20 78:2 79:6 88:3 111:2 127:5 assumed 8:6,24 assuming 17:5 25:7 51:6 83:24 84:3 135:16
120:12,16 122:11 128:15 130:15,16 134:14.16 137:15 138:7 138:16 above 1:16 20:3 57:3,4 105:21 109:13 135:17 absence 114:18 Absent 137:3 abuse 55:10,13 accept 63:17 acceptable 12:2 136:16 accompanying 120:17 according 20:15 80:5	actual 79:12,14 124:16 actually 13:16 31:16 54:9 59:1 63:10 77:11 78:23 81:2 Act's 85:20 add 31:23 33:2 addition 8:8 9:1 12:10 60:13 93:18 additional 116:2,19 117:5 118:2,5 address 33:9 57:8 59:11 121:9 addressed	agencies 66:15 111:22 agency 16:7,19 106:2,3 108:11,21,22 111:20 112:3 112:23,24 113:6 agree 19:24 24:11,14 25:5 33:12 51:11 85:17 88:15 90:12 91:18 96:6 97:15 98:8 106:13 113:16 116:13 128:12 129:9 131:15 agreed 5:3	37:8 amending 16:11 America 40:14 among 5:3 43:15 90:4 amount 44:3 61:12,21 62:6 amounts 27:20 analyses 27:6 27:13 37:18 analysis 22:24 24:15 25:7 27:3,10 51:6 58:10 63:1 80:5 84:4 137:3 138:18 139:12,13 analyzed 14:20	25:17 74:2 113:17 116:12 119:8 123:16 126:14 141:6 approval 115:10 approved 12:2 36:6,7 70:8 approves 70:10 approximately 33:21 65:13 72:4,9 April 35:16,20 96:21 area 32:6,8 33:10 44:14 52:17 69:13 126:9 138:12 areas 8:10,20	assistant 7:19 8:3,23 21:24 46:4,9 associated 37:23 associates 2:2 52:9 54:14 association 75:1,4 assume 39:20 69:20 78:2 79:6 88:3 111:2 127:5 assumed 8:6,24 assuming 17:5 25:7 51:6 83:24 84:3 135:16 assurance
120:12,16 122:11 128:15 130:15,16 134:14,16 137:15 138:7 138:16 above 1:16 20:3 57:3,4 105:21 109:13 135:17 absence 114:18 Absent 137:3 abuse 55:10,13 accept 63:17 acceptable 12:2 136:16 accompanying 120:17 according 20:15 80:5 116:12	actual 79:12,14 124:16 actually 13:16 31:16 54:9 59:1 63:10 77:11 78:23 81:2 Act's 85:20 add 31:23 33:2 addition 8:8 9:1 12:10 60:13 93:18 additional 116:2,19 117:5 118:2,5 address 33:9 57:8 59:11 121:9 addressed 85:15	agencies 66:15 111:22 agency 16:7,19 106:2,3 108:11,21,22 111:20 112:3 112:23,24 113:6 agree 19:24 24:11,14 25:5 33:12 51:11 85:17 88:15 90:12 91:18 96:6 97:15 98:8 106:13 113:16 116:13 128:12 129:9 131:15 agreed 5:3 12:19 34:24	37:8 amending 16:11 America 40:14 among 5:3 43:15 90:4 amount 44:3 61:12,21 62:6 amounts 27:20 analyses 27:6 27:13 37:18 analysis 22:24 24:15 25:7 27:3,10 51:6 58:10 63:1 80:5 84:4 137:3 138:18 139:12,13 analyzed 14:20 139:18	25:17 74:2 113:17 116:12 119:8 123:16 126:14 141:6 approval 115:10 approved 12:2 36:6,7 70:8 approves 70:10 approximately 33:21 65:13 72:4,9 April 35:16,20 96:21 area 32:6,8 33:10 44:14 52:17 69:13 126:9 138:12 areas 8:10,20 25:16 31:13	assistant 7:19 8:3,23 21:24 46:4,9 associated 37:23 associates 2:2 52:9 54:14 association 75:1,4 assume 39:20 69:20 78:2 79:6 88:3 111:2 127:5 assumed 8:6,24 assuming 17:5 25:7 51:6 83:24 84:3 135:16 assurance 129:3
120:12,16 122:11 128:15 130:15,16 134:14.16 137:15 138:7 138:16 above 1:16 20:3 57:3,4 105:21 109:13 135:17 absence 114:18 Absent 137:3 abuse 55:10,13 accept 63:17 acceptable 12:2 136:16 accompanying 120:17 according 20:15 80:5 116:12 accurate 54:3	actual 79:12,14 124:16 actually 13:16 31:16 54:9 59:1 63:10 77:11 78:23 81:2 Act's 85:20 add 31:23 33:2 addition 8:8 9:1 12:10 60:13 93:18 additional 116:2,19 117:5 118:2,5 address 33:9 57:8 59:11 121:9 addressed 85:15 addresses 15:13	agencies 66:15 111:22 agency 16:7,19 106:2,3 108:11,21,22 111:20 112:3 112:23,24 113:6 agree 19:24 24:11,14 25:5 33:12 51:11 85:17 88:15 90:12 91:18 96:6 97:15 98:8 106:13 113:16 116:13 128:12 129:9 131:15 agreed 5:3 12:19 34:24 72:4 113:10	37:8 amending 16:11 America 40:14 among 5:3 43:15 90:4 amount 44:3 61:12,21 62:6 amounts 27:20 analyses 27:6 27:13 37:18 analysis 22:24 24:15 25:7 27:3,10 51:6 58:10 63:1 80:5 84:4 137:3 138:18 139:12,13 analyzed 14:20 139:18 and/or 6:9	25:17 74:2 113:17 116:12 119:8 123:16 126:14 141:6 approval 115:10 approved 12:2 36:6,7 70:8 approvimately 33:21 65:13 72:4,9 April 35:16,20 96:21 area 32:6,8 33:10 44:14 52:17 69:13 126:9 138:12 areas 8:10,20 25:16 31:13 97:13 117:7	assistant 7:19 8:3,23 21:24 46:4,9 associated 37:23 associates 2:2 52:9 54:14 association 75:1,4 assume 39:20 69:20 78:2 79:6 88:3 111:2 127:5 assumed 8:6,24 assuming 17:5 25:7 51:6 83:24 84:3 135:16 assurance 129:3 assure 82:3
120:12,16 122:11 128:15 130:15,16 134:14,16 137:15 138:7 138:16 above 1:16 20:3 57:3,4 105:21 109:13 135:17 absence 114:18 Absent 137:3 abuse 55:10,13 accept 63:17 acceptable 12:2 136:16 accompanying 120:17 according 20:15 80:5 116:12 accurate 54:3 141:18	actual 79:12,14 124:16 actually 13:16 31:16 54:9 59:1 63:10 77:11 78:23 81:2 Act's 85:20 add 31:23 33:2 addition 8:8 9:1 12:10 60:13 93:18 additional 116:2,19 117:5 118:2,5 address 33:9 57:8 59:11 121:9 addressed 85:15 addresses 15:13 40:8,11	agencies 66:15 111:22 agency 16:7,19 106:2,3 108:11,21,22 111:20 112:3 112:23,24 113:6 agree 19:24 24:11,14 25:5 33:12 51:11 85:17 88:15 90:12 91:18 96:6 97:15 98:8 106:13 113:16 116:13 128:12 129:9 131:15 agreed 5:3 12:19 34:24 72:4 113:10 126:12,13	37:8 amending 16:11 America 40:14 among 5:3 43:15 90:4 amount 44:3 61:12,21 62:6 amounts 27:20 analyses 27:6 27:13 37:18 analysis 22:24 24:15 25:7 27:3,10 51:6 58:10 63:1 80:5 84:4 137:3 138:18 139:12,13 analyzed 14:20 139:18 and/or 6:9 117:5 144:14	25:17 74:2 113:17 116:12 119:8 123:16 126:14 141:6 approval 115:10 approved 12:2 36:6,7 70:8 approvimately 33:21 65:13 72:4,9 April 35:16,20 96:21 area 32:6,8 33:10 44:14 52:17 69:13 126:9 138:12 areas 8:10,20 25:16 31:13 97:13 117:7 126:18 134:24	assistant 7:19 8:3,23 21:24 46:4,9 associated 37:23 associates 2:2 52:9 54:14 association 75:1,4 assume 39:20 69:20 78:2 79:6 88:3 111:2 127:5 assumed 8:6,24 assuming 17:5 25:7 51:6 83:24 84:3 135:16 assurance 129:3 assure 82:3 attached 89:17
120:12,16 122:11 128:15 130:15,16 134:14,16 137:15 138:7 138:16 above 1:16 20:3 57:3,4 105:21 109:13 135:17 absence 114:18 Absent 137:3 abuse 55:10,13 accept 63:17 acceptable 12:2 136:16 accompanying 120:17 according 20:15 80:5 116:12 accurate 54:3 141:18	actual 79:12,14 124:16 actually 13:16 31:16 54:9 59:1 63:10 77:11 78:23 81:2 Act's 85:20 add 31:23 33:2 addition 8:8 9:1 12:10 60:13 93:18 additional 116:2,19 117:5 118:2,5 address 33:9 57:8 59:11 121:9 addressed 85:15 addresses 15:13 40:8,11 adjacent 76:8	agencies 66:15 111:22 agency 16:7,19 106:2,3 108:11,21,22 111:20 112:3 112:23,24 113:6 agree 19:24 24:11,14 25:5 33:12 51:11 85:17 88:15 90:12 91:18 96:6 97:15 98:8 106:13 113:16 116:13 128:12 129:9 131:15 agreed 5:3 12:19 34:24 72:4 113:10 126:12,13 129:11	37:8 amending 16:11 America 40:14 among 5:3 43:15 90:4 amount 44:3 61:12,21 62:6 amounts 27:20 analyses 27:6 27:13 37:18 analysis 22:24 24:15 25:7 27:3,10 51:6 58:10 63:1 80:5 84:4 137:3 138:18 139:12,13 analyzed 14:20 139:18 and/or 6:9 117:5 144:14 another 7:14	25:17 74:2 113:17 116:12 119:8 123:16 126:14 141:6 approval 115:10 approved 12:2 36:6,7 70:8 approves 70:10 approximately 33:21 65:13 72:4,9 April 35:16,20 96:21 area 32:6,8 33:10 44:14 52:17 69:13 126:9 138:12 areas 8:10,20 25:16 31:13 97:13 117:7 126:18 134:24 135:4 138:14	assistant 7:19 8:3,23 21:24 46:4,9 associated 37:23 associates 2:2 52:9 54:14 association 75:1,4 assume 39:20 69:20 78:2 79:6 88:3 111:2 127:5 assumed 8:6,24 assuming 17:5 25:7 51:6 83:24 84:3 135:16 assurance 129:3 assure 82:3 attached 89:17 107:16 108:2
120:12,16 122:11 128:15 130:15,16 134:14.16 137:15 138:7 138:16 above 1:16 20:3 57:3,4 105:21 109:13 135:17 absence 114:18 Absent 137:3 abuse 55:10,13 accept 63:17 acceptable 12:2 136:16 accompanying 120:17 according 20:15 80:5 116:12 accurate 54:3	actual 79:12,14 124:16 actually 13:16 31:16 54:9 59:1 63:10 77:11 78:23 81:2 Act's 85:20 add 31:23 33:2 addition 8:8 9:1 12:10 60:13 93:18 additional 116:2,19 117:5 118:2,5 address 33:9 57:8 59:11 121:9 addressed 85:15 addresses 15:13 40:8,11	agencies 66:15 111:22 agency 16:7,19 106:2,3 108:11,21,22 111:20 112:3 112:23,24 113:6 agree 19:24 24:11,14 25:5 33:12 51:11 85:17 88:15 90:12 91:18 96:6 97:15 98:8 106:13 113:16 116:13 128:12 129:9 131:15 agreed 5:3 12:19 34:24 72:4 113:10 126:12,13	37:8 amending 16:11 America 40:14 among 5:3 43:15 90:4 amount 44:3 61:12,21 62:6 amounts 27:20 analyses 27:6 27:13 37:18 analysis 22:24 24:15 25:7 27:3,10 51:6 58:10 63:1 80:5 84:4 137:3 138:18 139:12,13 analyzed 14:20 139:18 and/or 6:9 117:5 144:14	25:17 74:2 113:17 116:12 119:8 123:16 126:14 141:6 approval 115:10 approved 12:2 36:6,7 70:8 approvimately 33:21 65:13 72:4,9 April 35:16,20 96:21 area 32:6,8 33:10 44:14 52:17 69:13 126:9 138:12 areas 8:10,20 25:16 31:13 97:13 117:7 126:18 134:24	assistant 7:19 8:3,23 21:24 46:4,9 associated 37:23 associates 2:2 52:9 54:14 association 75:1,4 assume 39:20 69:20 78:2 79:6 88:3 111:2 127:5 assumed 8:6,24 assuming 17:5 25:7 51:6 83:24 84:3 135:16 assurance 129:3 assure 82:3 attached 89:17
120:12,16 122:11 128:15 130:15,16 134:14,16 137:15 138:7 138:16 above 1:16 20:3 57:3,4 105:21 109:13 135:17 absence 114:18 Absent 137:3 abuse 55:10,13 accept 63:17 acceptable 12:2 136:16 accompanying 120:17 according 20:15 80:5 116:12 accurate 54:3 141:18 achieve 106:19 ACKNOWLE	actual 79:12,14 124:16 actually 13:16 31:16 54:9 59:1 63:10 77:11 78:23 81:2 Act's 85:20 add 31:23 33:2 addition 8:8 9:1 12:10 60:13 93:18 additional 116:2,19 117:5 118:2,5 address 33:9 57:8 59:11 121:9 addressed 85:15 addresses 15:13 40:8,11 adjacent 76:8	agencies 66:15 111:22 agency 16:7,19 106:2,3 108:11,21,22 111:20 112:3 112:23,24 113:6 agree 19:24 24:11,14 25:5 33:12 51:11 85:17 88:15 90:12 91:18 96:6 97:15 98:8 106:13 113:16 116:13 128:12 129:9 131:15 agreed 5:3 12:19 34:24 72:4 113:10 126:12,13 129:11	37:8 amending 16:11 America 40:14 among 5:3 43:15 90:4 amount 44:3 61:12,21 62:6 amounts 27:20 analyses 27:6 27:13 37:18 analysis 22:24 24:15 25:7 27:3,10 51:6 58:10 63:1 80:5 84:4 137:3 138:18 139:12,13 analyzed 14:20 139:18 and/or 6:9 117:5 144:14 another 7:14	25:17 74:2 113:17 116:12 119:8 123:16 126:14 141:6 approval 115:10 approved 12:2 36:6,7 70:8 approves 70:10 approximately 33:21 65:13 72:4,9 April 35:16,20 96:21 area 32:6,8 33:10 44:14 52:17 69:13 126:9 138:12 areas 8:10,20 25:16 31:13 97:13 117:7 126:18 134:24 135:4 138:14	assistant 7:19 8:3,23 21:24 46:4,9 associated 37:23 associates 2:2 52:9 54:14 association 75:1,4 assume 39:20 69:20 78:2 79:6 88:3 111:2 127:5 assumed 8:6,24 assuming 17:5 25:7 51:6 83:24 84:3 135:16 assurance 129:3 assure 82:3 attached 89:17 107:16 108:2
120:12,16 122:11 128:15 130:15,16 134:14,16 137:15 138:7 138:16 above 1:16 20:3 57:3,4 105:21 109:13 135:17 absence 114:18 Absent 137:3 abuse 55:10,13 accept 63:17 acceptable 12:2 136:16 accompanying 120:17 according 20:15 80:5 116:12 accurate 54:3 141:18 achieve 106:19 ACKNOWLE 142:2	actual 79:12,14 124:16 actually 13:16 31:16 54:9 59:1 63:10 77:11 78:23 81:2 Act's 85:20 add 31:23 33:2 addition 8:8 9:1 12:10 60:13 93:18 additional 116:2,19 117:5 118:2,5 address 33:9 57:8 59:11 121:9 addressed 85:15 addresses 15:13 40:8,11 adjacent 76:8 76:17 admitting	agencies 66:15 111:22 agency 16:7,19 106:2,3 108:11,21,22 111:20 112:3 112:23,24 113:6 agree 19:24 24:11,14 25:5 33:12 51:11 85:17 88:15 90:12 91:18 96:6 97:15 98:8 106:13 113:16 116:13 128:12 129:9 131:15 agreed 5:3 12:19 34:24 72:4 113:10 126:12,13 129:11 agreeing 80:10 103:2 128:14	37:8 amending 16:11 America 40:14 among 5:3 43:15 90:4 amount 44:3 61:12,21 62:6 amounts 27:20 analyses 27:6 27:13 37:18 analysis 22:24 24:15 25:7 27:3,10 51:6 58:10 63:1 80:5 84:4 137:3 138:18 139:12,13 analyzed 14:20 139:18 and/or 6:9 117:5 144:14 another 7:14 8:14 35:13 38:1 63:2	25:17 74:2 113:17 116:12 119:8 123:16 126:14 141:6 approval 115:10 approved 12:2 36:6,7 70:8 approvimately 33:21 65:13 72:4,9 April 35:16,20 96:21 area 32:6,8 33:10 44:14 52:17 69:13 126:9 138:12 areas 8:10,20 25:16 31:13 97:13 117:7 126:18 134:24 135:4 138:14 138:21,22 139:1	assistant 7:19 8:3,23 21:24 46:4,9 associated 37:23 associates 2:2 52:9 54:14 association 75:1,4 assume 39:20 69:20 78:2 79:6 88:3 111:2 127:5 assumed 8:6,24 assuming 17:5 25:7 51:6 83:24 84:3 135:16 assurance 129:3 assure 82:3 attached 89:17 107:16 108:2 141:12 142:9 attachment
120:12,16 122:11 128:15 130:15,16 134:14,16 137:15 138:7 138:16 above 1:16 20:3 57:3,4 105:21 109:13 135:17 absence 114:18 Absent 137:3 abuse 55:10,13 accept 63:17 acceptable 12:2 136:16 accompanying 120:17 according 20:15 80:5 116:12 accurate 54:3 141:18 achieve 106:19 ACKNOWLE 142:2 acquire 38:13	actual 79:12,14 124:16 actually 13:16 31:16 54:9 59:1 63:10 77:11 78:23 81:2 Act's 85:20 add 31:23 33:2 addition 8:8 9:1 12:10 60:13 93:18 additional 116:2,19 117:5 118:2,5 address 33:9 57:8 59:11 121:9 addressed 85:15 addresses 15:13 40:8,11 adjacent 76:8 76:17 admitting 123:7	agencies 66:15 111:22 agency 16:7,19 106:2,3 108:11,21,22 111:20 112:3 112:23,24 113:6 agree 19:24 24:11,14 25:5 33:12 51:11 85:17 88:15 90:12 91:18 96:6 97:15 98:8 106:13 113:16 116:13 128:12 129:9 131:15 agreed 5:3 12:19 34:24 72:4 113:10 126:12,13 129:11 agreeing 80:10 103:2 128:14 129:10	37:8 amending 16:11 America 40:14 among 5:3 43:15 90:4 amount 44:3 61:12,21 62:6 amounts 27:20 analyses 27:6 27:13 37:18 analysis 22:24 24:15 25:7 27:3,10 51:6 58:10 63:1 80:5 84:4 137:3 138:18 139:12,13 analyzed 14:20 139:18 and/or 6:9 117:5 144:14 another 7:14 8:14 35:13 38:1 63:2 82:10 92:6	25:17 74:2 113:17 116:12 119:8 123:16 126:14 141:6 approval 115:10 approved 12:2 36:6,7 70:8 approves 70:10 approximately 33:21 65:13 72:4,9 April 35:16,20 96:21 area 32:6,8 33:10 44:14 52:17 69:13 126:9 138:12 areas 8:10,20 25:16 31:13 97:13 117:7 126:18 134:24 135:4 138:14 138:21,22 139:1 aren't 103:1	assistant 7:19 8:3,23 21:24 46:4,9 associated 37:23 associates 2:2 52:9 54:14 association 75:1,4 assume 39:20 69:20 78:2 79:6 88:3 111:2 127:5 assumed 8:6,24 assuming 17:5 25:7 51:6 83:24 84:3 135:16 assurance 129:3 assure 82:3 attached 89:17 107:16 108:2 141:12 142:9 attachment 21:15 58:7
120:12,16 122:11 128:15 130:15,16 134:14,16 137:15 138:7 138:16 above 1:16 20:3 57:3,4 105:21 109:13 135:17 absence 114:18 Absent 137:3 abuse 55:10,13 accept 63:17 acceptable 12:2 136:16 accompanying 120:17 according 20:15 80:5 116:12 accurate 54:3 141:18 achieve 106:19 ACKNOWLE 142:2 acquire 38:13 Acres 9:11 11:7	actual 79:12,14 124:16 actually 13:16 31:16 54:9 59:1 63:10 77:11 78:23 81:2 Act's 85:20 add 31:23 33:2 addition 8:8 9:1 12:10 60:13 93:18 additional 116:2,19 117:5 118:2,5 address 33:9 57:8 59:11 121:9 addressed 85:15 addresses 15:13 40:8,11 adjacent 76:8 76:17 admitting 123:7 adopt 64:10	agencies 66:15 111:22 agency 16:7,19 106:2,3 108:11,21,22 111:20 112:3 112:23,24 113:6 agree 19:24 24:11,14 25:5 33:12 51:11 85:17 88:15 90:12 91:18 96:6 97:15 98:8 106:13 113:16 116:13 128:12 129:9 131:15 agreed 5:3 12:19 34:24 72:4 113:10 126:12,13 129:11 agreeing 80:10 103:2 128:14 129:10 agreement	37:8 amending 16:11 America 40:14 among 5:3 43:15 90:4 amount 44:3 61:12,21 62:6 amounts 27:20 analyses 27:6 27:13 37:18 analysis 22:24 24:15 25:7 27:3,10 51:6 58:10 63:1 80:5 84:4 137:3 138:18 139:12,13 analyzed 14:20 139:18 and/or 6:9 117:5 144:14 another 7:14 8:14 35:13 38:1 63:2 82:10 92:6 110:13 139:15	25:17 74:2 113:17 116:12 119:8 123:16 126:14 141:6 approval 115:10 approved 12:2 36:6,7 70:8 approvimately 33:21 65:13 72:4,9 April 35:16,20 96:21 area 32:6,8 33:10 44:14 52:17 69:13 126:9 138:12 areas 8:10,20 25:16 31:13 97:13 117:7 126:18 134:24 135:4 138:14 138:21,22 139:1 aren't 103:1 arguing 35:1	assistant 7:19 8:3,23 21:24 46:4,9 associated 37:23 associates 2:2 52:9 54:14 association 75:1,4 assume 39:20 69:20 78:2 79:6 88:3 111:2 127:5 assumed 8:6,24 assuming 17:5 25:7 51:6 83:24 84:3 135:16 assurance 129:3 assure 82:3 attached 89:17 107:16 108:2 141:12 142:9 attachment 21:15 58:7 attachments
120:12,16 122:11 128:15 130:15,16 134:14,16 137:15 138:7 138:16 above 1:16 20:3 57:3,4 105:21 109:13 135:17 absence 114:18 Absent 137:3 abuse 55:10,13 accept 63:17 acceptable 12:2 136:16 accompanying 120:17 according 20:15 80:5 116:12 accurate 54:3 141:18 achieve 106:19 ACKNOWLE 142:2 acquire 38:13 Acres 9:11 11:7 11:10 12:1.5	actual 79:12,14 124:16 actually 13:16 31:16 54:9 59:1 63:10 77:11 78:23 81:2 Act's 85:20 add 31:23 33:2 addition 8:8 9:1 12:10 60:13 93:18 additional 116:2,19 117:5 118:2,5 address 33:9 57:8 59:11 121:9 addressed 85:15 addresses 15:13 40:8,11 adjacent 76:8 76:17 admitting 123:7 adopt 64:10 adopted 106:4	agencies 66:15 111:22 agency 16:7,19 106:2,3 108:11,21,22 111:20 112:3 112:23,24 113:6 agree 19:24 24:11,14 25:5 33:12 51:11 85:17 88:15 90:12 91:18 96:6 97:15 98:8 106:13 113:16 116:13 128:12 129:9 131:15 agreed 5:3 12:19 34:24 72:4 113:10 126:12,13 129:11 agreeing 80:10 103:2 128:14 129:10 agreement 17:17,23 33:8	37:8 amending 16:11 America 40:14 among 5:3 43:15 90:4 amount 44:3 61:12,21 62:6 amounts 27:20 analyses 27:6 27:13 37:18 analysis 22:24 24:15 25:7 27:3,10 51:6 58:10 63:1 80:5 84:4 137:3 138:18 139:12,13 analyzed 14:20 139:18 and/or 6:9 117:5 144:14 another 7:14 8:14 35:13 38:1 63:2 82:10 92:6 110:13 139:15 answer 11:15	25:17 74:2 113:17 116:12 119:8 123:16 126:14 141:6 approval 115:10 approved 12:2 36:6,7 70:8 approvimately 33:21 65:13 72:4,9 April 35:16,20 96:21 area 32:6,8 33:10 44:14 52:17 69:13 126:9 138:12 areas 8:10,20 25:16 31:13 97:13 117:7 126:18 134:24 135:4 138:14 138:21,22 139:1 aren't 103:1 arguing 35:1 72:10	assistant 7:19 8:3,23 21:24 46:4,9 associated 37:23 associates 2:2 52:9 54:14 association 75:1,4 assume 39:20 69:20 78:2 79:6 88:3 111:2 127:5 assumed 8:6,24 assuming 17:5 25:7 51:6 83:24 84:3 135:16 assurance 129:3 assure 82:3 attached 89:17 107:16 108:2 141:12 142:9 attachment 21:15 58:7 attachments 21:13 57:23
120:12,16 122:11 128:15 130:15,16 134:14,16 137:15 138:7 138:16 above 1:16 20:3 57:3,4 105:21 109:13 135:17 absence 114:18 Absent 137:3 abuse 55:10,13 accept 63:17 acceptable 12:2 136:16 accompanying 120:17 according 20:15 80:5 116:12 accurate 54:3 141:18 achieve 106:19 ACKNOWLE 142:2 acquire 38:13 Acres 9:11 11:7 11:10 12:1,5 16:21 17:1	actual 79:12,14 124:16 actually 13:16 31:16 54:9 59:1 63:10 77:11 78:23 81:2 Act's 85:20 add 31:23 33:2 addition 8:8 9:1 12:10 60:13 93:18 additional 116:2,19 117:5 118:2,5 address 33:9 57:8 59:11 121:9 addressed 85:15 addresses 15:13 40:8,11 adjacent 76:8 76:17 admitting 123:7 adopt 64:10 adopted 106:4 adult 55:2	agencies 66:15 111:22 agency 16:7,19 106:2,3 108:11,21,22 111:20 112:3 112:23,24 113:6 agree 19:24 24:11,14 25:5 33:12 51:11 85:17 88:15 90:12 91:18 96:6 97:15 98:8 106:13 113:16 116:13 128:12 129:9 131:15 agreed 5:3 12:19 34:24 72:4 113:10 126:12,13 129:11 agreeing 80:10 103:2 128:14 129:10 agreement 17:17,23 33:8 34:22 66:14	37:8 amending 16:11 America 40:14 among 5:3 43:15 90:4 amount 44:3 61:12,21 62:6 amounts 27:20 analyses 27:6 27:13 37:18 analysis 22:24 24:15 25:7 27:3,10 51:6 58:10 63:1 80:5 84:4 137:3 138:18 139:12,13 analyzed 14:20 139:18 and/or 6:9 117:5 144:14 another 7:14 8:14 35:13 38:1 63:2 82:10 92:6 110:13 139:15 answer 11:15 17:3 19:15	25:17 74:2 113:17 116:12 119:8 123:16 126:14 141:6 approval 115:10 approved 12:2 36:6,7 70:8 approves 70:10 approximately 33:21 65:13 72:4,9 April 35:16,20 96:21 area 32:6,8 33:10 44:14 52:17 69:13 126:9 138:12 areas 8:10,20 25:16 31:13 97:13 117:7 126:18 134:24 135:4 138:14 138:21,22 139:1 aren't 103:1 arguing 35:1 72:10 argument	assistant 7:19 8:3,23 21:24 46:4,9 associated 37:23 associates 2:2 52:9 54:14 association 75:1,4 assume 39:20 69:20 78:2 79:6 88:3 111:2 127:5 assumed 8:6,24 assuming 17:5 25:7 51:6 83:24 84:3 135:16 assurance 129:3 assure 82:3 attached 89:17 107:16 108:2 141:12 142:9 attachment 21:15 58:7 attachments 21:13 57:23 58:5,10
120:12,16 122:11 128:15 130:15,16 134:14,16 137:15 138:7 138:16 above 1:16 20:3 57:3,4 105:21 109:13 135:17 absence 114:18 Absent 137:3 abuse 55:10,13 accept 63:17 acceptable 12:2 136:16 accompanying 120:17 according 20:15 80:5 116:12 accurate 54:3 141:18 achieve 106:19 ACKNOWLE 142:2 acquire 38:13 Acres 9:11 11:7 11:10 12:1.5 16:21 17:1 22:20 23:5.13	actual 79:12,14 124:16 actually 13:16 31:16 54:9 59:1 63:10 77:11 78:23 81:2 Act's 85:20 add 31:23 33:2 addition 8:8 9:1 12:10 60:13 93:18 additional 116:2,19 117:5 118:2,5 address 33:9 57:8 59:11 121:9 addressed 85:15 addresses 15:13 40:8,11 adjacent 76:8 76:17 admitting 123:7 adopt 64:10 adopted 106:4 adult 55:2 advance 103:18	agencies 66:15 111:22 agency 16:7,19 106:2,3 108:11,21,22 111:20 112:3 112:23,24 113:6 agree 19:24 24:11,14 25:5 33:12 51:11 85:17 88:15 90:12 91:18 96:6 97:15 98:8 106:13 113:16 116:13 128:12 129:9 131:15 agreed 5:3 12:19 34:24 72:4 113:10 126:12,13 129:11 agreeing 80:10 103:2 128:14 129:10 agreement 17:17,23 33:8 34:22 66:14 132:23 133:12	37:8 amending 16:11 America 40:14 among 5:3 43:15 90:4 amount 44:3 61:12,21 62:6 amounts 27:20 analyses 27:6 27:13 37:18 analysis 22:24 24:15 25:7 27:3,10 51:6 58:10 63:1 80:5 84:4 137:3 138:18 139:12,13 analyzed 14:20 139:18 and/or 6:9 117:5 144:14 another 7:14 8:14 35:13 38:1 63:2 82:10 92:6 110:13 139:15 answer 11:15 17:3 19:15 38:6 51:7 52:5	25:17 74:2 113:17 116:12 119:8 123:16 126:14 141:6 approval 115:10 approved 12:2 36:6,7 70:8 approves 70:10 approximately 33:21 65:13 72:4,9 April 35:16,20 96:21 area 32:6,8 33:10 44:14 52:17 69:13 126:9 138:12 areas 8:10,20 25:16 31:13 97:13 117:7 126:18 134:24 135:4 138:14 138:21,22 139:1 aren't 103:1 argument 72:17	assistant 7:19 8:3,23 21:24 46:4,9 associated 37:23 associates 2:2 52:9 54:14 association 75:1,4 assume 39:20 69:20 78:2 79:6 88:3 111:2 127:5 assumed 8:6,24 assuming 17:5 25:7 51:6 83:24 84:3 135:16 assurance 129:3 assure 82:3 attached 89:17 107:16 108:2 141:12 142:9 attachment 21:15 58:7 attachments 21:13 57:23 58:5,10 attempt 44:2,6
120:12,16 122:11 128:15 130:15,16 134:14,16 137:15 138:7 138:16 above 1:16 20:3 57:3,4 105:21 109:13 135:17 absence 114:18 Absent 137:3 abuse 55:10,13 accept 63:17 acceptable 12:2 136:16 accompanying 120:17 according 20:15 80:5 116:12 accurate 54:3 141:18 achieve 106:19 ACKNOWLE 142:2 acquire 38:13 Acres 9:11 11:7 11:10 12:1,5 16:21 17:1 22:20 23:5,13 24:6,13 28:14	actual 79:12,14 124:16 actually 13:16 31:16 54:9 59:1 63:10 77:11 78:23 81:2 Act's 85:20 add 31:23 33:2 addition 8:8 9:1 12:10 60:13 93:18 additional 116:2,19 117:5 118:2,5 address 33:9 57:8 59:11 121:9 addressed 85:15 addresses 15:13 40:8,11 adjacent 76:8 76:17 admitting 123:7 adopt 64:10 adopted 106:4 adult 55:2 advance 103:18 Advanced	agencies 66:15 111:22 agency 16:7,19 106:2,3 108:11,21,22 111:20 112:3 112:23,24 113:6 agree 19:24 24:11,14 25:5 33:12 51:11 85:17 88:15 90:12 91:18 96:6 97:15 98:8 106:13 113:16 116:13 128:12 129:9 131:15 agreed 5:3 12:19 34:24 72:4 113:10 126:12,13 129:11 agreeing 80:10 103:2 128:14 129:10 agreement 17:17,23 33:8 34:22 66:14 132:23 133:12 agrees 114:17	37:8 amending 16:11 America 40:14 among 5:3 43:15 90:4 amount 44:3 61:12,21 62:6 amounts 27:20 analyses 27:6 27:13 37:18 analysis 22:24 24:15 25:7 27:3,10 51:6 58:10 63:1 80:5 84:4 137:3 138:18 139:12,13 analyzed 14:20 139:18 and/or 6:9 117:5 144:14 another 7:14 8:14 35:13 38:1 63:2 82:10 92:6 110:13 139:15 answer 11:15 17:3 19:15 38:6 51:7 52:5 55:16 63:13	25:17 74:2 113:17 116:12 119:8 123:16 126:14 141:6 approval 115:10 approved 12:2 36:6,7 70:8 approvimately 33:21 65:13 72:4,9 April 35:16,20 96:21 area 32:6,8 33:10 44:14 52:17 69:13 126:9 138:12 areas 8:10,20 25:16 31:13 97:13 117:7 126:18 134:24 135:4 138:14 138:21,22 139:1 aren't 103:1 arguing 35:1 72:10 argument 72:17 arguments	assistant 7:19 8:3,23 21:24 46:4,9 associated 37:23 associates 2:2 52:9 54:14 association 75:1,4 assume 39:20 69:20 78:2 79:6 88:3 111:2 127:5 assumed 8:6,24 assuming 17:5 25:7 51:6 83:24 84:3 135:16 assurance 129:3 assure 82:3 attached 89:17 107:16 108:2 141:12 142:9 attachment 21:15 58:7 attachments 21:13 57:23 58:5,10 attempt 44:2,6 57:3 73:23
120:12,16 122:11 128:15 130:15,16 134:14,16 137:15 138:7 138:16 above 1:16 20:3 57:3,4 105:21 109:13 135:17 absence 114:18 Absent 137:3 abuse 55:10,13 accept 63:17 acceptable 12:2 136:16 accompanying 120:17 according 20:15 80:5 116:12 accurate 54:3 141:18 achieve 106:19 ACKNOWLE 142:2 acquire 38:13 Acres 9:11 11:7 11:10 12:1,5 16:21 17:1 22:20 23:5,13	actual 79:12,14 124:16 actually 13:16 31:16 54:9 59:1 63:10 77:11 78:23 81:2 Act's 85:20 add 31:23 33:2 addition 8:8 9:1 12:10 60:13 93:18 additional 116:2,19 117:5 118:2,5 address 33:9 57:8 59:11 121:9 addressed 85:15 addresses 15:13 40:8,11 adjacent 76:8 76:17 admitting 123:7 adopt 64:10 adopted 106:4 adult 55:2 advance 103:18 Advanced 11:11 13:23	agencies 66:15 111:22 agency 16:7,19 106:2,3 108:11,21,22 111:20 112:3 112:23,24 113:6 agree 19:24 24:11,14 25:5 33:12 51:11 85:17 88:15 90:12 91:18 96:6 97:15 98:8 106:13 113:16 116:13 128:12 129:9 131:15 agreed 5:3 12:19 34:24 72:4 113:10 126:12,13 129:11 agreeing 80:10 103:2 128:14 129:10 agreement 17:17,23 33:8 34:22 66:14 132:23 133:12 agrees 114:17 ahead 115:10	37:8 amending 16:11 America 40:14 among 5:3 43:15 90:4 amount 44:3 61:12,21 62:6 amounts 27:20 analyses 27:6 27:13 37:18 analysis 22:24 24:15 25:7 27:3,10 51:6 58:10 63:1 80:5 84:4 137:3 138:18 139:12,13 analyzed 14:20 139:18 and/or 6:9 117:5 144:14 another 7:14 8:14 35:13 38:1 63:2 82:10 92:6 110:13 139:15 answer 11:15 17:3 19:15 38:6 51:7 52:5 55:16 63:13 67:1 70:3 80:7	25:17 74:2 113:17 116:12 119:8 123:16 126:14 141:6 approval 115:10 approved 12:2 36:6,7 70:8 approves 70:10 approximately 33:21 65:13 72:4,9 April 35:16,20 96:21 area 32:6,8 33:10 44:14 52:17 69:13 126:9 138:12 areas 8:10,20 25:16 31:13 97:13 117:7 126:18 134:24 135:4 138:14 138:21,22 139:1 aren't 103:1 argument 72:17 arguments 72:13	assistant 7:19 8:3,23 21:24 46:4,9 associated 37:23 associates 2:2 52:9 54:14 association 75:1,4 assume 39:20 69:20 78:2 79:6 88:3 111:2 127:5 assumed 8:6,24 assuming 17:5 25:7 51:6 83:24 84:3 135:16 assurance 129:3 assure 82:3 attached 89:17 107:16 108:2 141:12 142:9 attachment 21:15 58:7 attachments 21:13 57:23 58:5,10 attempt 44:2,6 57:3 73:23 attempted
120:12,16 122:11 128:15 130:15,16 134:14,16 137:15 138:7 138:16 above 1:16 20:3 57:3,4 105:21 109:13 135:17 absence 114:18 Absent 137:3 abuse 55:10,13 accept 63:17 acceptable 12:2 136:16 accompanying 120:17 according 20:15 80:5 116:12 accurate 54:3 141:18 achieve 106:19 ACKNOWLE 142:2 acquire 38:13 Acres 9:11 11:7 11:10 12:1,5 16:21 17:1 22:20 23:5,13 24:6,13 28:14	actual 79:12,14 124:16 actually 13:16 31:16 54:9 59:1 63:10 77:11 78:23 81:2 Act's 85:20 add 31:23 33:2 addition 8:8 9:1 12:10 60:13 93:18 additional 116:2,19 117:5 118:2,5 address 33:9 57:8 59:11 121:9 addressed 85:15 addresses 15:13 40:8,11 adjacent 76:8 76:17 admitting 123:7 adopt 64:10 adopted 106:4 adult 55:2 advance 103:18 Advanced	agencies 66:15 111:22 agency 16:7,19 106:2,3 108:11,21,22 111:20 112:3 112:23,24 113:6 agree 19:24 24:11,14 25:5 33:12 51:11 85:17 88:15 90:12 91:18 96:6 97:15 98:8 106:13 113:16 116:13 128:12 129:9 131:15 agreed 5:3 12:19 34:24 72:4 113:10 126:12,13 129:11 agreeing 80:10 103:2 128:14 129:10 agreement 17:17,23 33:8 34:22 66:14 132:23 133:12 agrees 114:17	37:8 amending 16:11 America 40:14 among 5:3 43:15 90:4 amount 44:3 61:12,21 62:6 amounts 27:20 analyses 27:6 27:13 37:18 analysis 22:24 24:15 25:7 27:3,10 51:6 58:10 63:1 80:5 84:4 137:3 138:18 139:12,13 analyzed 14:20 139:18 and/or 6:9 117:5 144:14 another 7:14 8:14 35:13 38:1 63:2 82:10 92:6 110:13 139:15 answer 11:15 17:3 19:15 38:6 51:7 52:5 55:16 63:13	25:17 74:2 113:17 116:12 119:8 123:16 126:14 141:6 approval 115:10 approved 12:2 36:6,7 70:8 approvimately 33:21 65:13 72:4,9 April 35:16,20 96:21 area 32:6,8 33:10 44:14 52:17 69:13 126:9 138:12 areas 8:10,20 25:16 31:13 97:13 117:7 126:18 134:24 135:4 138:14 138:21,22 139:1 aren't 103:1 arguing 35:1 72:10 argument 72:17 arguments	assistant 7:19 8:3,23 21:24 46:4,9 associated 37:23 associates 2:2 52:9 54:14 association 75:1,4 assume 39:20 69:20 78:2 79:6 88:3 111:2 127:5 assumed 8:6,24 assuming 17:5 25:7 51:6 83:24 84:3 135:16 assurance 129:3 assure 82:3 attached 89:17 107:16 108:2 141:12 142:9 attachment 21:15 58:7 attachments 21:13 57:23 58:5,10 attempt 44:2,6 57:3 73:23

45,00 44.0	hand 54:10	06.14.100.0	Pour 0.17	Loonitale 57:1	shildren 14:4
65:22 66:3	band 54:18	96:14 100:9	Boys 9:17	capitals 57:1	children 14:4
81:22	Baranski 39:14	108:19 109:8	branch 36:23	care 59:12	26:9,18,20
attempting	based 32:5 43:9	110:5 112:6	break 5:19 59:2	carefully 141:4	27:1,15,20
11:23 19:15	87:1 109:15	112:22,23	84:23	Carl 60:2	28:10,12
attic 50:21	122:11	113:19,24	Bright 22:2	carolina 1:1 2:5	46:21 47:1,3
attorney 5:18	basis 18:10	116:7 119:24	122:14 125:1	2:10 9:11	59:22 62:18
11:3 15:23	19:13 25:20	125:19 126:16	125:2,6,16	16:14 23:15	64:14,17
46:18 53:18	68:21 106:9	128:5 136:8	<b>bring</b> 112:9,16	61:13,24 75:7	68:13 69:4,8
141:14	114:12 137:6	137:9	119:23	75:10 85:19	69:13,16,21
<b>August</b> 8:4,6,11	137:11,13	believed 128:4	Bristol 45:13	91:6 108:10	70:1,6 79:20
8:17,19,24	139:9	believes 12:17	brought 9:22	108:21 120:21	99:8,22 100:5
17:18 33:17	batteries 75:20	106:12 128:15	10:5 28:11	121:3	104:17 105:10
39:24 94:2	battery 7:11	below 20:6	38:15 47:4	case 9:15,16,21	135:14
132:23 133:4	10:12,13	31:13 48:20	74:18 120:1	9:22 10:2,3	choose 17:7
133:10	76:11	138:19	Bruce 21:11	37:1,5 74:17	Circuit 17:16
authored 13:2	became 67:3	Bent 48:13,14	32:21	74:20 84:3	circumstances
authority 16:23		50:14,22 65:2	Building 2:8	88:18 119:7	86:16
17:4,7 67:4	<b>become</b> 86:15	besides 15:22	bulk 19:14	127:5 137:2	citation 16:5
115:8,10	86:17 122:10	37:16 43:4	Buncombe	cases 62:24	City 135:7
authorized	becomes 85:24	60:7 73:18	37:21 93:20	74:22	civil 62:3
80:18	before 1:16	123:14 136:17	burning 37:23	CDC 15:2 27:7	claim 47:15
automobile	5:22 7:3 8:11	best 75:14	business 65:16	47:7,8	71:15,15
37:22 61:6	9:13 21:7,14	139:11	Bussey 4:4	ceased 75:15	72:14 129:5
automobiles	25:18 37:10	between 34:22	21:24 79:6	cement 138:24	claiming 10:6
93:8	47:14 58:3	52:20 63:6	109:1 111:8	cemented	claims 74:16
available 34:17	62:9 64:23	70:12 71:3	112:4 124:24	138:21	clarify 17:3
95:15 99:15	67:3 68:3	88:7 95:17	125:1,6	Centers 14:13	clean 13:4
Avanti 9:23	79:18 81:17	99:2 111:13	128:20	CERCLA 10:7	16:24 19:6,16
10:8,12	84:14,19 88:3	119:3 133:3,4	Bussey's 127:2	84:8 109:15	20:11 25:10
average 19:21	90:2 91:19	133:8 137:22	byars 1:4 29:4	certain 8:10 9:2	25:18 26:17
20:4 24:24	94:5,6,8 97:5	<b>beyond</b> 48:13	29:5 48:13	9:3 10:22	33:20,24
25:6	100:12 104:8	105:22	50:24 51:12	43:17 44:15	34:23,24 42:6
aware 15:12,15	109:21 110:11	<b>Bill</b> 60:16,19	51:24 52:11	48:19 52:17	59:6,18 85:19
15:17 16:17	112:1 120:4	Billy 22:1	52:19,23 53:2	53:7 61:18	101:1,6 106:7
25:12 26:20	132:10,16	122:14 125:16	53:3,6 70:13	97:23 110:8	106:13 108:12
34:2,13,21	134:1 142:13	Biokinetic	70:16,22 71:2	111:19 138:22	116:14,16
35:3,6 37:7	began 57:14	109:16	98:1	139:17	117:12,21
44:10,18	begin 11:14	<b>blood</b> 14:4,7,7	B-A-R-A-N-S	certainly 17:4	121:6 128:14
45:10,12 47:1	beginning	14:14,15 27:1	39:14	20:2 37:3	132:17 133:15
52:7,18 62:6,9	120:5	27:4,8,12	B-U-N-C-O-M	71:23 138:13	cleaned 11:10
63:24 67:15	behalf 28:11	43:14 46:21	37:21	certification	20:15 51:13
70:11,14	47:4 95:21	63:9 79:13,15		5:4 144:11	75:24 104:3
74:17,19	being 14:6 37:8	79:24 80:2,2	C	certify 142:4	111:19 133:22
93:15 98:12	42:23 71:23	98:6,13,16	C 2:1 52:9	144:3	136:24
98:22 118:13	97:24 103:14	100:8,17	Cadillac 76:7	certifying	cleaning 36:5
124:15	108:21 113:17	101:4 135:24	77:5	144:14	126:6,11
awareness	116:6 118:11	blood-sampling	calculate 70:7	CFR 86:1	cleanup 10:16
98:23	125:12	43:18	calculating	Chadds 11:12	10:19,20
A-V-A-N-T-I	believe 7:14 8:3	blue 21:16 22:7	64:7 69:12	challenge	11:16,18
9:23	10:13,18	<b>Bob</b> 134:14	calendar 46:5	119:22	12:10,16,24
ı	11:13,18	Bobby 29:5	Calicott 52:9	chance 11:2	13:13 16:3,18
В	20:21 21:13	52:19 53:6	call 9:1 64:6	58:8	16:20 17:5,6
B 3:7 4:1	22:2 25:18	Bockius 43:21	called 28:24	change 7:24	17:20,23,24
back 31:7 39:12	27:11 29:6	boldface 56:24	30:12 36:19	8:16,21 58:10	18:18,20 19:1
51:23 56:5	30:6 32:18	57:1	57:20 71:8	79:20 80:8	19:7,8,9,11
102:19 103:6	37:22 41:16	both 18:22 23:4	76:7 81:10	132:20 143:4	25:12,14,15
111:13 113:21	41:17 47:13	23:13 53:20	calling 58:1	changed 8:1	25:22 26:6,9
121:18	48:18 53:6	54:23 62:24	call-in 28:19	95:6,11 133:5	33:7,11,12,18
backed 56:7	60:12 63:6,10	74:21 106:19	came 19:2	133:8	34:3,4 36:7,10
background	68:4 70:15	<b>bottom</b> 54:16	37:16 53:16	changes 141:11	42:8,10 46:14
23:14,19	71:14,22 74:2	113:3 116:9	70:16	142:8	47:13 51:16
Balance 81:11	75:9 78:16	128:19	Campbell	characterization	52:1 71:14
81:14	82:16 84:5,18	Boulevard 1:22	29:24	90:13	76:6,12,16,24
ball 102:21	85:23 89:5,6	<b>bound</b> 54:18	candidates 75:8	checked 46:8	79:11 80:4
103:18	92:5 94:7,21	Box 2:4,9	75:11	child 55:3	91:24 94:12
	•		ļ		

07.0 100.14	02.21	21.15	4 4 . 00 . 3	21.10.27.12	
97:8 100:14	93:21	31:15	content 99:3	31:19 37:12	culpability
100:20 101:24	compensation	confidential	contested 71:11	37:13 50:22	123:23
102:20,22,23	61:6,10 74:16	71:21	context 55:14	50:24 52:5	current 7:9
103:2,15,19	complain 29:5	confirm 119:22	continues 55:11	53:4 59:19	65:21 66:24
103:21 104:6	29:7 131:11	confirmed	126:13 131:11	60:18 63:22	88:12
104:9 106:5	complained	14:15,18	continuing 98:5	65:1 68:6 70:2	currently 38:17
106:19,23	28:14,16,18	confusion	contours 35:12	70:3,6 72:12	42:1
107:7 109:9	29:10,14,20	113:5	contractor 18:1	73:11,12	curtailed 88:14
		i			
112:2 113:11	29:21 30:2	connected	contractors	74:20,21,22	cut 28:5
113:13 114:16	45:1,5 66:8	127:1	12:9	76:24 83:12	C.R 32:21
121:9 122:6,8	complaining	connection	contribute	91:6 94:14	C/A 1:7
123:1,5 125:9	64:1 111:12	9:22 42:2	23:12 93:9	95:4 101:21	C_E_R_T_I_F
126:1 128:10	complaint	Consent 17:17	129:6,18	102:2,13	144:1
129:4,12	123:18,21	17:23 33:3,4,8	130:8	103:24 104:2	:
130:21 131:13	complaints	33:15,16	contributed	104:5 106:8	D
132:17 134:21	28:17 47:6	47:16 83:17	126:17	109:19,22	<b>D</b> 3:1,3 5:9
135:10,12	. 52:18 66:21	86:2 87:12,13	contributes	112:18 115:5	142:3
137:6,15,23	complete	116:23 117:1	75:4	115:6 116:3	daily 88:13
138:1	109:24 117:4	132:23 133:12	contributing	117:10 122:17	<b>Dallas</b> 76:7
cleanups	completed	conservative	24:16 37:24	132:3 137:7	
126:14 136:17	11:13 63:11		<b>Y</b>		77:6,7
		11:20	92:2,6 93:5	142:5	damage 29:11
clean-up	90:8	considering	130:18 131:4	correction	29:15,20,22
113:17 116:10	complex 28:9	106:11	131:19	141:7	30:2
clear 53:11	compliance	consistent	contributions	corrections	data 12:13,17
109:4 120:24	40:11,12	44:21 128:5,6	75:7,10	141:5 142:8	14:1,2,3,8
close 32:10	compound	consists 21:10	contributor	correspondence	26:23,24
41:10 79:16	23:10 93:3	constant	23:4 68:4	53:1,5,7 63:16	42:19,22 52:4
closed 9:9 40:9	compromise	111:16	70:21 71:1	70:12,14	52:16,16 63:1
closing 75:12	34:6,11 71:3,9	consult 24:2	105:12	73:22 99:2,3	63:2,5,11 64:6
clouds 39:4	computer 12:8	consultant	contributors	99:13 119:14	97:11,18 98:4
. collect 115:11	12:12 13:8	13:21 22:16	23:6	130:5,17	98:12 103:10
collected 24:23	concealed 37:8	34:18 41:2	control 3:21	cost 20:10	109:24 110:1
42:23 118:11	concentration	42:16 52:8	14:14 16:15	32:13 71:15	115:11 118:10
collecting	114:13	62:10,17,22	17:22 44:22	72:12,14	118:11 131:20
116:19 118:8	concentrations	62:23 68:20	144:13	123:12 125:20	
collection 63:11	24:23 31:11	88:23 89:2	conversation	137:15	date 1:16 19:1
118:11	31:13 109:19	93:11 95:15	6:1 130:17	costs 10:8 32:15	19:4 50:5,7
					54:15 75:12
collings 2:12 85:8	concern 6:3	112:9,16	136:12	47:10,15 71:4	75:17,21
	16:9	138:24 139:2	conversations	counsel 2:6,11	85:16 88:4
come 41:11		consultants	21:17,20	2:14 5:3 7:20	89:10 112:7
comes 22:4	99:22	23:18 41:23	70:12 73:23	8:4,8,23 18:10	123:5 127:12
57:16 135:7	concerning	48:8 49:22	95:17 108:24	22:1 26:12	141:9 142:11
coming 52:19	34:19 43:18	93:15 95:17	130:5	34:9 43:17,19	144:10
comitting		consultant's	cooperation	43:20 45:20	dated 90:8
126:10	99:13	48:19,22	117:1	48:3,5 55:22	94:13,21
commencement	conclude	contact 46:12	copied 58:2	78:5 79:7	136:6
58:22	125:13	46:16	77:15 94:3	81:24 119:7	dates 53:1
commencing	concluded 63:6	contacting	97:3 101:15	country 92:10	Daub 41:19,20
1:15	140:2	116:1	copies 110:22	couple 132:16	day 84:16
commission	conclusions	contain 119:3	copy 6:16	134:16 136:10	142:14
142:15	15:20 20:22	containing	101:16	court 1:1 9:19	days 117:9
commitment	90:10	119:2	corporate	17:16 28:17	141:15
119:22	conclusive 15:1	contaminated	39:16	51:23 141:18	
Commonwealth	conclusively	9:7 10:16,19	corporation 1:6	Courthouse 2:3	DEAKINS 2:7
1:18	131:21,24	92:24 93:1	7:11 9:18,22	cover 21:10	deal 35:2,5,7
-	·				113:5
communicated	conduct 17:5	contaminating	11:12 13:24	40:5 87:1,6,6	decade 57:4
89:6	42:16 74:3	70:16	41:12 42:2,19	119:1	decades 55:10
communications	100:19 130:20	contamination	42:22 55:1	coverage 61:7	December
119:3	conducted 43:6	10:11,14	60:21 66:5	covered 133:12	75:16 82:13
comp 61:15	45:16,18	22:12 28:15	83:17 100:19	Creek 48:13,14	decided 106:21
company 7:14	64:12 93:19	66:9,22 68:5	Corporation's	50:14,22 65:3	119:23
7:15 9:8 76:10	95:21 96:3,16	73:15 74:12	87:16	criteria 14:12	deciliter 14:17
76:11 90:7	97:10 100:7	97:12.16	correct 5:19	16:13 47:7,9	27:5,9
company's 61:5	confer 6:9.10	108:12 129:7	22:13 24:6	103:13,15	decision 38:9
compared	confidence	129:18 130:9	25:3,22 31:15	139:17,19	38:13,16 67:3
				•	

		· · · · · · · · · ·			
67:4 72:19,20	depth 34:5 95:2	59:9 62:1,4	discusses 52:10	68:12,16 69:2	92:24
73:17 138:24	132:13	63:2,16,17,19	discussing	79:11	employed 41:7
139:3,4,6	describe 52:23	63:22 66:12	72:10 79:17	draft 15:15,17	41:12,18,20
decision-making	described 28:8	70:10 79:10	134:3	20:17,20,21	60:20,22 84:5
8:10	35:7 45:23,24	79:19,22,23	discussion	73:24 87:3	employees
decrease 88:7	58:18,22 62:5	80:3,10 83:17	99:16 134:7	88:4 120:9	43:15
deed 32:24	DESCRIPTION	84:1 87:4 89:4	137:22	132:3,5	employment
deeds 30:8,18	3:8 4:2	95:6,8 97:8	discussions	draws 15:19	60:3
30:20,20,23	designated	98:19,24 99:2	124:24 125:1	drew 90:9	encaptioned
deemed 141:17	108:9	99:6,14	Disease 14:13	Drive 48:14	9:16
default 63:18	Despina 41:8	103:13 104:13	disparity 45:11	50:14,22 65:3	end 50:10 87:11
64:1 114:12	41:15	104:15 105:1	dispersion	due 82:9	91:17 102:18
defaults 109:17	destroyed 37:8	105:4,7 106:2	90:19	duly 5:10 144:3	endorsed
Defendant 1:7	detailed 12:7	106:3,4,7,15	distances 31:12	duplicates	105:17,22
2:11,14	detailing 58:14	106:22 107:4	distinguish	111:5	112:3
defer 68:10	detected 83:10	110:7 111:13	31:12	duplicating	enforcement
110:15,17	determination	112:24 113:10	DISTRICT 1:1	102:18	22:2 57:2
defined 27:2	15:10 90:20	115:2,9	1:1	duplicative	125:19
103:13	determine	116:13 117:2	division 1:2	103:1	Engineering
DEHEC 4:3	11:15,23	117:12,17	120:20	during 50:1	3:11 49:16
deliberate 55:2	13:12 14:10	118:4 119:4	Dixie 76:10	57:3,4 62:7	52:5
deliberately	16:20 19:13	119:22,24	doctor 68:19	88:11	enough 54:2
35:11	23:18 24:18	121:2,4 122:2	document 21:9	dust 39:5 51:3	58:2 121:14
delineate	26:5,6 44:3	123:4,6,10,13	21:14 26:19	67:14,17	enter 86:2
103:16	46:6 62:10	125:8 128:9	77:18 81:10	109:18 110:5	entered 17:18
delineated	64:13 69:10	128:12 129:10	84:14,15,19	110:10	33:16,17
97:13	70:5 100:4	130:6,18	85:13 90:2		47:17
delineates	105:18 106:5	131:4,13	115:19	E	entire 32:6
117:7	121:10 124:13	132:11,17	documented	E 1:16 2:1,1 3:1	77:20
delineating	determined	133:23 134:3	100:16 101:4	3:7 4:1 143:2	entirely 44:15
103:12	24:8 25:21	137:23 139:17	documents 11:3	earlier 27:2	entry 132:22
delineation	32:12 33:5,11	DHEC's 59:10	15:23 16:1,4	71:5,6 92:1,8	environment
103:10,13	51:18 84:7	64:8,10 95:14	16:16,17	92:21 93:4,18	12:1 23:11
delving 6:7	102:23 106:16	95:16,18	26:15 30:12	95:13 124:15	63:8 92:10
demanded	106:23	99:13 114:16	37:5,8 52:22	126:16 131:1	93:3 105:14
133:23	determining	122:9	54:18 56:10	early 18:24	105:24
demands 131:13	102:22 developed	Diana 21:11 differ 86:18	66:16 81:1 82:1,7,17 90:4	19:2 52:24	environmental 3:21 7:20 8:10
<b>Dennis</b> 43:22	12:11,15	difference	107:12	57:12,15	9:2,4 16:6,15
43:24	36:17 105:17	20:10	Dodds 43:20,23	easier 28:3	39:16,19 40:3
department	Development	different 12:4	doing 25:20	54:10 84:22 114:8	40:7,10,11,12
3:20 16:7,15	16:8	19:17 125:5	55:23 102:24	edge 37:21	40:16 60:8
39:16,20,22	deviation 25:2	difficult 90:21	104:23 105:2	Edward 43:21	61:14
40:2,4,7,8,10	device 15:8	diligent 30:7,11	120:23 121:9	effect 99:8	EPA 3:15,17,22
60:9 116:1	devices 44:20	45:16,18	141:8	effects 64:13	3:22 4:5 12:2
departments	<b>DHEC</b> 3:18,19	direct 7:15	done 22:19 25:8	69:4,7,15,21	12:17,17,19
40:5	12:3,15,19	39:13 144:13	30:10 32:24	efficiently	12:22 13:1,17
departs 25:19	13:16,24 15:3	Director 8:7	39:18,23 43:5	106:20	16:12 21:12
depend 38:4	15:5 17:8,16	21:11 61:1	43:8,10 49:2	effort 57:8 82:4	21:21 22:1,3
depends 67:23	17:21,22 18:2	disagree 77:16	49:14 67:13	either 6:6 13:16	23:21 32:12
deponent 9:20	18:3,6,9,16	90:15 94:16	71:5 87:19,20	28:19 45:21	32:14 33:23
142:2	19:9,11 23:21	94:18	88:1,3,19	51:22 62:15	34:22 44:17
deposed 9:13	26:3,13,16	disagreeing	90:13,22	80:17 116:6	44:21 45:1
9:16,20	28:19 33:13	122:6	91:19 92:14	elevated 14:4,7	47:12,13,15
deposing 141:14	33:23 34:3,9	disagreement 122:8	98:24 103:19	14:10,14	47:22 62:2,7 64:4 66:12
deposited 91:14	34:14,15,17 34:19,22,23	disagrees 56:13	116:5,6,7,7 126:2,8	26:21 27:1	70:8 71:4
deposition 1:12	36:8,9 42:6,8	disclosed 48:2	136:17	68:14 79:12	72:11,20,20
1:21 6:2 15:22		119:6	doubt 88:18	79:15,19	73:23 78:2,4
85:8 90:11,17	44:17,18 45:1	discovery 30:5	101:18	93:21 98:6,13 100:17 101:4	78:15 79:5,7
120:23 140:1	45:8 46:12,18	30:13,14,15	down 33:6,19	135:17,18,21	80:1,9,19
141:4,12.16	47:17,23	73:8	34:7 78:22	Elizabeth 18:14	82:13 85:5
141:17 144:4	•	discuss 123:4	123:4 132:8	Elmer 78:1	86:4,13,19
depositions	53:19 56:14	discussed 66:1	dozen 29:1,2	emissions 44:3	89:4,13,21
36:24	57:2,13,18		Dr 46:20,24	44:7 89:3 91:5	98:7 105:17
				· <del>-</del>	
				,	

					<del></del>
105 22 106 1	120-17-120-4	22.15.22.1.2	1 126.24	1 64 10-4	· e 4 (0.2
105:22 106:1	129:16 130:4	22:15 23:1,3	136:24	factors 12:4	fired 60:2
107:13,14	130:6,17	24:5 25:9,12	Exide's 7:2,5	25:22 79:10	firm 18:15
108:8,21	131:3	26:20,23	48:7 101:23	79:17,18,21	38:15 43:21
109:15 111:3	every 48:4	27:14,19	104:8 123:23	105:20,22	43:22 44:1
111:8,13	56:18 58:13	28:18,19 30:5	129:3 131:18	facts 89:7	45:19 49:14
112:20,23	evidence 26:16	30:6,9,17	132:13 133:14	factual 55:17	first 5:10 6:23
113:10,12,15	37:14	32:12,14 33:1	133:19	55:19 56:18	18:16,19,20
114:15 115:2	evidencing 27:8	33:11,19,24	exist 8:13 16:18	58:21	21:14,15 51:5
1	52:22	34:17,22,23	39:20	fail 141:16	54:16 55:8
120:2,11,17					
121:1,4 122:2	evident 98:5	34:24 36:4,15	existing 16:11	fair 54:2 99:5	57:10,11
122:5,10,11	122:1	36:18 37:14	exists 45:20	114:19 136:23	60:12 66:7
122:13,14	exact 13:7 19:1	37:17 38:3,8	46:1 100:16	fall 119:15	71:8 77:23
123:6,13	19:3 20:7,13	38:12,17	101:3	falls 129:2	78:1,10,20
124:20,22	48:15 53:1	40:22 41:7,12	expanded 8:20	familiar 12:7	79:1,2,5 83:3
125:8,17	59:16 61:21	41:18,20,24	102:2,12	29:9,13 82:12	87:12 95:13
128:9,12,13	62:6 64:22	42:1,4,6,15,18	103:7	Fanning 49:9	96:2 97:6,6,9
128:15,17,20	72:3,5 75:21	42:21 43:8	expert 13:20,23	Fanning's 49:7	100:7 103:21
128:21 129:9	76:20 125:18		22:15 24:3	far 78:11	107:15 113:4
		44:2,11,13,20			
130:5,18	exactly 70:2	45:2 47:10,14	31:24 42:16	110:11 132:4	114:5 117:3,4
131:3 134:23	examination	47:16 48:8,8	51:5,7 60:1	Farrell 29:24	127:4
137:10	5:13 6:5	52:20 55:1,10	62:10,13,16	fashion 6:5	five 27:1 58:20
EPA's 64:10	examined 5:10	59:6,13,17	67:19,20,21	<b>FAST</b> 36:16,19	Fletcher 42:4
78:12,16	examples 58:20	60:3,20 61:12	67:22 70:23	fax 3:16 86:21	43:5,6 45:9
80:24 85:17	exceed 52:1	62:10 64:12	91:1 93:12	86:23	48:24 49:22
127:11	exceeded 27:4	64:23 65:15	110:12 138:23	faxed 4:4 87:10	52:10,14 68:2
equal 103:14	exceeds 47:7,8	65:22 66:1,5,8	experts 23:18	89:18 126:24	84:6 95:20
equipment 61:9		66:16.19	35:12 38:6	February 86:21	96:1 97:10,16
	33:10 36:22	•	67:24 68:2,10	125:10	97:18
equivalent		67:12,12,22			1
103:14	73:7 142:7	68:4,18 70:12	69:11,14	Federal 83:12	Floor 1:21
Erosion 81:18	exception 32:8	70:17,24 71:4	expires 142:15	84:9,12	focus 124:18
errata 141:7,8	excerpt 130:13	72:4,8,19 73:9	explain 137:17	feel 105:21	focused 96:9
141:11,14	130:15,24	73:13 74:6,6	explaining	117:4 118:2	123:22
142:9	excess 14:16	74:10 75:3,7,9	139:13	Ferrante 41:8	followed 27:9
	CACCOO I IIXO	1 1110 10101117	107.10		1011000 27.7
errors 58:21					
	97:12,17,20	75:24 83:16	explanation	41:15	following 84:7
escaping 44:4	97:12,17,20 excuse 5:22	75:24 83:16 84:2 85:18	explanation 127:11,14	41:15 few 47:24 56:21	following 84:7 follows 5:11
escaping 44:4 especially	97:12,17,20 excuse 5:22 7:12 8:4 10:14	75:24 83:16 84:2 85:18 87:16 89:3	explanation 127:11,14 exposed 27:20	41:15 few 47:24 56:21 field 32:1 70:23	following 84:7 follows 5:11 Ford 11:12
escaping 44:4 especially 105:11	97:12,17,20 excuse 5:22 7:12 8:4 10:14 63:8	75:24 83:16 84:2 85:18 87:16 89:3 90:7,10,16	explanation 127:11,14 exposed 27:20 47:5	41:15 few 47:24 56:21 field 32:1 70:23 91:2	following 84:7 follows 5:11 Ford 11:12 foregoing 122:1
escaping 44:4 especially 105:11 especiate	97:12,17,20 excuse 5:22 7:12 8:4 10:14 63:8 exhaust 37:23	75:24 83:16 84:2 85:18 87:16 89:3 90:7,10,16 91:18,23 92:5	explanation 127:11,14 exposed 27:20 47:5 exposure 47:2,7	41:15 few 47:24 56:21 field 32:1 70:23 91:2 fields 68:11	following 84:7 follows 5:11 Ford 11:12 foregoing 122:1 142:4 144:11
escaping 44:4 especially 105:11 especiate 121:11	97:12,17,20 excuse 5:22 7:12 8:4 10:14 63:8 exhaust 37:23 exhibit 6:14,16	75:24 83:16 84:2 85:18 87:16 89:3 90:7,10,16 91:18,23 92:5 94:11,17 95:7	explanation 127:11,14 exposed 27:20 47:5 exposure 47:2,7 47:8 74:12	41:15 few 47:24 56:21 field 32:1 70:23 91:2 fields 68:11 figure 22:16,19	following 84:7 follows 5:11 Ford 11:12 foregoing 122:1 142:4 144:11 form 5:6 80:13
escaping 44:4 especially 105:11 especiate 121:11 esquire 1:21	97:12,17,20 excuse 5:22 7:12 8:4 10:14 63:8 exhaust 37:23 exhibit 6:14,16 6:20 21:4,10	75:24 83:16 84:2 85:18 87:16 89:3 90:7,10,16 91:18,23 92:5 94:11,17 95:7 95:9,21 96:3	explanation 127:11,14 exposed 27:20 47:5 exposure 47:2,7 47:8 74:12 98:5 100:15	41:15 few 47:24 56:21 field 32:1 70:23 91:2 fields 68:11 figure 22:16,19 62:17 67:13	following 84:7 follows 5:11 Ford 11:12 foregoing 122:1 142:4 144:11 form 5:6 80:13 99:9 104:19
escaping 44:4 especially 105:11 especiate 121:11 esquire 1:21 2:3,8,12 3:3	97:12,17,20 excuse 5:22 7:12 8:4 10:14 63:8 exhaust 37:23 exhibit 6:14,16 6:20 21:4,10 21:16 49:18	75:24 83:16 84:2 85:18 87:16 89:3 90:7,10,16 91:18,23 92:5 94:11,17 95:7 95:9,21 96:3 96:16 97:10	explanation 127:11,14 exposed 27:20 47:5 exposure 47:2,7 47:8 74:12 98:5 100:15 101:3 109:16	41:15 few 47:24 56:21 field 32:1 70:23 91:2 fields 68:11 figure 22:16,19 62:17 67:13 69:15 90:23	following 84:7 follows 5:11 Ford 11:12 foregoing 122:1 142:4 144:11 form 5:6 80:13 99:9 104:19 107:1 117:14
escaping 44:4 especially 105:11 especiate 121:11 esquire 1:21 2:3,8,12 3:3 5:9 21:11,24	97:12,17,20 excuse 5:22 7:12 8:4 10:14 63:8 exhaust 37:23 exhibit 6:14,16 6:20 21:4,10 21:16 49:18 50:18 53:13	75:24 83:16 84:2 85:18 87:16 89:3 90:7,10,16 91:18,23 92:5 94:11,17 95:7 95:9,21 96:3 96:16 97:10 98:15 99:2,18	explanation 127:11,14 exposed 27:20 47:5 exposure 47:2,7 47:8 74:12 98:5 100:15 101:3 109:16 109:17	41:15 few 47:24 56:21 field 32:1 70:23 91:2 fields 68:11 figure 22:16,19 62:17 67:13 69:15 90:23 122:19,22	following 84:7 follows 5:11 Ford 11:12 foregoing 122:1 142:4 144:11 form 5:6 80:13 99:9 104:19 107:1 117:14 129:21 130:10
escaping 44:4 especially 105:11 especiate 121:11 esquire 1:21 2:3,8,12 3:3	97:12,17,20 excuse 5:22 7:12 8:4 10:14 63:8 exhaust 37:23 exhibit 6:14,16 6:20 21:4,10 21:16 49:18 50:18 53:13 54:20 77:12	75:24 83:16 84:2 85:18 87:16 89:3 90:7,10,16 91:18,23 92:5 94:11,17 95:7 95:9,21 96:3 96:16 97:10 98:15 99:2,18 99:22 100:4,9	explanation 127:11,14 exposed 27:20 47:5 exposure 47:2,7 47:8 74:12 98:5 100:15 101:3 109:16	41:15 few 47:24 56:21 field 32:1 70:23 91:2 fields 68:11 figure 22:16,19 62:17 67:13 69:15 90:23	following 84:7 follows 5:11 Ford 11:12 foregoing 122:1 142:4 144:11 form 5:6 80:13 99:9 104:19 107:1 117:14
escaping 44:4 especially 105:11 especiate 121:11 esquire 1:21 2:3,8,12 3:3 5:9 21:11,24	97:12,17,20 excuse 5:22 7:12 8:4 10:14 63:8 exhaust 37:23 exhibit 6:14,16 6:20 21:4,10 21:16 49:18 50:18 53:13	75:24 83:16 84:2 85:18 87:16 89:3 90:7,10,16 91:18,23 92:5 94:11,17 95:7 95:9,21 96:3 96:16 97:10 98:15 99:2,18	explanation 127:11,14 exposed 27:20 47:5 exposure 47:2,7 47:8 74:12 98:5 100:15 101:3 109:16 109:17	41:15 few 47:24 56:21 field 32:1 70:23 91:2 fields 68:11 figure 22:16,19 62:17 67:13 69:15 90:23 122:19,22	following 84:7 follows 5:11 Ford 11:12 foregoing 122:1 142:4 144:11 form 5:6 80:13 99:9 104:19 107:1 117:14 129:21 130:10
escaping 44:4 especially 105:11 especiate 121:11 esquire 1:21 2:3,8,12 3:3 5:9 21:11,24 46:19 85:8	97:12,17,20 excuse 5:22 7:12 8:4 10:14 63:8 exhaust 37:23 exhibit 6:14,16 6:20 21:4,10 21:16 49:18 50:18 53:13 54:20 77:12 81:3 82:24	75:24 83:16 84:2 85:18 87:16 89:3 90:7,10,16 91:18,23 92:5 94:11,17 95:7 95:9,21 96:3 96:16 97:10 98:15 99:2,18 99:22 100:4,9 100:19 101:1	explanation 127:11,14 exposed 27:20 47:5 exposure 47:2,7 47:8 74:12 98:5 100:15 101:3 109:16 109:17 extent 80:22 e-mail 77:24 80:17	41:15 few 47:24 56:21 field 32:1 70:23 91:2 fields 68:11 figure 22:16,19 62:17 67:13 69:15 90:23 122:19,22 124:5 file 66:11	following 84:7 follows 5:11 Ford 11:12 foregoing 122:1 142:4 144:11 form 5:6 80:13 99:9 104:19 107:1 117:14 129:21 130:10 133:17 142:8 formation
escaping 44:4 especially 105:11 especiate 121:11 esquire 1:21 2:3,8,12 3:3 5:9 21:11,24 46:19 85:8 142:3 established	97:12,17,20 excuse 5:22 7:12 8:4 10:14 63:8 exhaust 37:23 exhibit 6:14,16 6:20 21:4,10 21:16 49:18 50:18 53:13 54:20 77:12 81:3 82:24 85:6,9 86:9,10	75:24 83:16 84:2 85:18 87:16 89:3 90:7,10,16 91:18,23 92:5 94:11,17 95:7 95:9,21 96:3 96:16 97:10 98:15 99:2,18 99:22 100:4,9 100:19 101:1 101:6 103:7	explanation 127:11,14 exposed 27:20 47:5 exposure 47:2,7 47:8 74:12 98:5 100:15 101:3 109:16 109:17 extent 80:22 e-mail 77:24 80:17	41:15 few 47:24 56:21 field 32:1 70:23 91:2 fields 68:11 figure 22:16,19 62:17 67:13 69:15 90:23 122:19,22 124:5 file 66:11 filed 17:16 28:8	following 84:7 follows 5:11 Ford 11:12 foregoing 122:1 142:4 144:11 form 5:6 80:13 99:9 104:19 107:1 117:14 129:21 130:10 133:17 142:8 formation 75:17,18
escaping 44:4 especially 105:11 especiate 121:11 esquire 1:21 2:3,8,12 3:3 5:9 21:11,24 46:19 85:8 142:3 established 12:20 44:16	97:12,17,20 excuse 5:22 7:12 8:4 10:14 63:8 exhaust 37:23 exhibit 6:14,16 6:20 21:4,10 21:16 49:18 50:18 53:13 54:20 77:12 81:3 82:24 85:6,9 86:9,10 89:14 93:23	75:24 83:16 84:2 85:18 87:16 89:3 90:7,10,16 91:18,23 92:5 94:11,17 95:7 95:9,21 96:3 96:16 97:10 98:15 99:2,18 99:22 100:4,9 100:19 101:1 101:6 103:7 104:3 105:9	explanation 127:11,14 exposed 27:20 47:5 exposure 47:2,7 47:8 74:12 98:5 100:15 101:3 109:16 109:17 extent 80:22 e-mail 77:24 80:17 e-mails 47:22	41:15 few 47:24 56:21 field 32:1 70:23 91:2 fields 68:11 figure 22:16,19 62:17 67:13 69:15 90:23 122:19,22 124:5 file 66:11 filed 17:16 28:8 28:17	following 84:7 follows 5:11 Ford 11:12 foregoing 122:1 142:4 144:11 form 5:6 80:13 99:9 104:19 107:1 117:14 129:21 130:10 133:17 142:8 formation 75:17,18 former 42:5
escaping 44:4 especially 105:11 especiate 121:11 esquire 1:21 2:3,8,12 3:3 5:9 21:11,24 46:19 85:8 142:3 established 12:20 44:16 52:2 102:20	97:12,17,20 excuse 5:22 7:12 8:4 10:14 63:8 exhaust 37:23 exhibit 6:14,16 6:20 21:4,10 21:16 49:18 50:18 53:13 54:20 77:12 81:3 82:24 85:6,9 86:9,10 89:14 93:23 96:22,24	75:24 83:16 84:2 85:18 87:16 89:3 90:7,10,16 91:18,23 92:5 94:11,17 95:7 95:9,21 96:3 96:16 97:10 98:15 99:2,18 99:22 100:4,9 100:19 101:1 101:6 103:7 104:3 105:9 105:13 106:7	explanation 127:11,14 exposed 27:20 47:5 exposure 47:2,7 47:8 74:12 98:5 100:15 101:3 109:16 109:17 extent 80:22 e-mail 77:24 80:17	41:15 few 47:24 56:21 field 32:1 70:23 91:2 fields 68:11 figure 22:16,19 62:17 67:13 69:15 90:23 122:19,22 124:5 file 66:11 filed 17:16 28:8 28:17 filing 5:4	following 84:7 follows 5:11 Ford 11:12 foregoing 122:1 142:4 144:11 form 5:6 80:13 99:9 104:19 107:1 117:14 129:21 130:10 133:17 142:8 formation 75:17,18 former 42:5 formerly 9:8
escaping 44:4 especially 105:11 especiate 121:11 esquire 1:21 2:3,8,12 3:3 5:9 21:11,24 46:19 85:8 142:3 established 12:20 44:16 52:2 102:20 establishing	97:12,17,20 excuse 5:22 7:12 8:4 10:14 63:8 exhaust 37:23 exhibit 6:14,16 6:20 21:4,10 21:16 49:18 50:18 53:13 54:20 77:12 81:3 82:24 85:6,9 86:9,10 89:14 93:23 96:22,24 101:10 107:17	75:24 83:16 84:2 85:18 87:16 89:3 90:7,10,16 91:18,23 92:5 94:11,17 95:7 95:9,21 96:3 96:16 97:10 98:15 99:2,18 99:22 100:4,9 100:19 101:1 101:6 103:7 104:3 105:9 105:13 106:7 106:11 107:6	explanation 127:11,14 exposed 27:20 47:5 exposure 47:2,7 47:8 74:12 98:5 100:15 101:3 109:16 109:17 extent 80:22 e-mail 77:24 80:17 e-mails 47:22 47:24	41:15 few 47:24 56:21 field 32:1 70:23 91:2 fields 68:11 figure 22:16,19 62:17 67:13 69:15 90:23 122:19,22 124:5 file 66:11 filed 17:16 28:8 28:17 filing 5:4 final 15:12	following 84:7 follows 5:11 Ford 11:12 foregoing 122:1 142:4 144:11 form 5:6 80:13 99:9 104:19 107:1 117:14 129:21 130:10 133:17 142:8 formation 75:17,18 former 42:5 formerly 9:8 40:6
escaping 44:4 especially 105:11 especiate 121:11 esquire 1:21 2:3,8,12 3:3 5:9 21:11,24 46:19 85:8 142:3 established 12:20 44:16 52:2 102:20 establishing 16:8	97:12,17,20 excuse 5:22 7:12 8:4 10:14 63:8 exhaust 37:23 exhibit 6:14,16 6:20 21:4,10 21:16 49:18 50:18 53:13 54:20 77:12 81:3 82:24 85:6,9 86:9,10 89:14 93:23 96:22,24 101:10 107:17 110:23,24	75:24 83:16 84:2 85:18 87:16 89:3 90:7,10,16 91:18,23 92:5 94:11,17 95:7 95:9,21 96:3 96:16 97:10 98:15 99:2,18 99:22 100:4,9 100:19 101:1 101:6 103:7 104:3 105:9 105:13 106:7 106:11 107:6 108:11 109:8	explanation 127:11,14 exposed 27:20 47:5 exposure 47:2,7 47:8 74:12 98:5 100:15 101:3 109:16 109:17 extent 80:22 e-mail 77:24 80:17 e-mails 47:22 47:24	41:15 few 47:24 56:21 field 32:1 70:23 91:2 fields 68:11 figure 22:16,19 62:17 67:13 69:15 90:23 122:19,22 124:5 file 66:11 filed 17:16 28:8 28:17 filing 5:4 final 15:12 73:24 74:3	following 84:7 follows 5:11 Ford 11:12 foregoing 122:1 142:4 144:11 form 5:6 80:13 99:9 104:19 107:1 117:14 129:21 130:10 133:17 142:8 formation 75:17,18 former 42:5 formerly 9:8 40:6 forth 111:13
escaping 44:4 especially 105:11 especiate 121:11 esquire 1:21 2:3,8,12 3:3 5:9 21:11,24 46:19 85:8 142:3 established 12:20 44:16 52:2 102:20 establishing 16:8 estate 65:16,18	97:12,17,20 excuse 5:22 7:12 8:4 10:14 63:8 exhaust 37:23 exhibit 6:14,16 6:20 21:4,10 21:16 49:18 50:18 53:13 54:20 77:12 81:3 82:24 85:6,9 86:9,10 89:14 93:23 96:22,24 101:10 107:17 110:23,24 113:23 115:15	75:24 83:16 84:2 85:18 87:16 89:3 90:7,10,16 91:18,23 92:5 94:11,17 95:7 95:9,21 96:3 96:16 97:10 98:15 99:2,18 99:22 100:4,9 100:19 101:1 101:6 103:7 104:3 105:9 105:13 106:7 106:11 107:6 108:11 109:8 110:15 111:18	explanation 127:11,14 exposed 27:20 47:5 exposure 47:2,7 47:8 74:12 98:5 100:15 101:3 109:16 109:17 extent 80:22 e-mail 77:24 80:17 e-mails 47:22 47:24	41:15 few 47:24 56:21 field 32:1 70:23 91:2 fields 68:11 figure 22:16,19 62:17 67:13 69:15 90:23 122:19,22 124:5 file 66:11 filed 17:16 28:8 28:17 filing 5:4 final 15:12 73:24 74:3 91:19	following 84:7 follows 5:11 Ford 11:12 foregoing 122:1 142:4 144:11 form 5:6 80:13 99:9 104:19 107:1 117:14 129:21 130:10 133:17 142:8 formation 75:17,18 former 42:5 formerly 9:8 40:6 forth 111:13 forward 102:21
escaping 44:4 especially 105:11 especiate 121:11 esquire 1:21 2:3,8,12 3:3 5:9 21:11,24 46:19 85:8 142:3 established 12:20 44:16 52:2 102:20 establishing 16:8 estate 65:16,18 Europe 7:12,13	97:12,17,20 excuse 5:22 7:12 8:4 10:14 63:8 exhaust 37:23 exhibit 6:14,16 6:20 21:4,10 21:16 49:18 50:18 53:13 54:20 77:12 81:3 82:24 85:6,9 86:9,10 89:14 93:23 96:22,24 101:10 107:17 110:23,24 113:23 115:15 118:19 120:7	75:24 83:16 84:2 85:18 87:16 89:3 90:7,10,16 91:18,23 92:5 94:11,17 95:7 95:9,21 96:3 96:16 97:10 98:15 99:2,18 99:22 100:4,9 100:19 101:1 101:6 103:7 104:3 105:9 105:13 106:7 106:11 107:6 108:11 109:8 110:15 111:18 111:20 116:12	explanation 127:11,14 exposed 27:20 47:5 exposure 47:2,7 47:8 74:12 98:5 100:15 101:3 109:16 109:17 extent 80:22 e-mail 77:24 80:17 e-mails 47:22 47:24 F F 1:22 facilities 9:8	41:15 few 47:24 56:21 field 32:1 70:23 91:2 fields 68:11 figure 22:16,19 62:17 67:13 69:15 90:23 122:19,22 124:5 file 66:11 filed 17:16 28:8 28:17 filing 5:4 final 15:12 73:24 74:3 91:19 finalized 71:24	following 84:7 follows 5:11 Ford 11:12 foregoing 122:1 142:4 144:11 form 5:6 80:13 99:9 104:19 107:1 117:14 129:21 130:10 133:17 142:8 formation 75:17,18 former 42:5 formerly 9:8 40:6 forth 111:13 forward 102:21 111:17
escaping 44:4 especially 105:11 especiate 121:11 esquire 1:21 2:3,8,12 3:3 5:9 21:11,24 46:19 85:8 142:3 established 12:20 44:16 52:2 102:20 establishing 16:8 estate 65:16,18 Europe 7:12,13 evaluate 139:16	97:12,17,20 excuse 5:22 7:12 8:4 10:14 63:8 exhaust 37:23 exhibit 6:14,16 6:20 21:4,10 21:16 49:18 50:18 53:13 54:20 77:12 81:3 82:24 85:6,9 86:9,10 89:14 93:23 96:22,24 101:10 107:17 110:23,24 113:23 115:15 118:19 120:7 120:15 121:17	75:24 83:16 84:2 85:18 87:16 89:3 90:7,10,16 91:18,23 92:5 94:11,17 95:7 95:9,21 96:3 96:16 97:10 98:15 99:2,18 99:22 100:4,9 100:19 101:1 101:6 103:7 104:3 105:9 105:13 106:7 106:11 107:6 108:11 109:8 110:15 111:18 111:20 116:12 119:3,22	explanation 127:11,14 exposed 27:20 47:5 exposure 47:2,7 47:8 74:12 98:5 100:15 101:3 109:16 109:17 extent 80:22 e-mail 77:24 80:17 e-mails 47:22 47:24 F F 1:22 facilities 9:8 40:13 76:17	41:15 few 47:24 56:21 field 32:1 70:23 91:2 fields 68:11 figure 22:16,19 62:17 67:13 69:15 90:23 122:19,22 124:5 file 66:11 filed 17:16 28:8 28:17 filing 5:4 final 15:12 73:24 74:3 91:19 finalized 71:24 financial 36:22	following 84:7 follows 5:11 Ford 11:12 foregoing 122:1 142:4 144:11 form 5:6 80:13 99:9 104:19 107:1 117:14 129:21 130:10 133:17 142:8 formation 75:17,18 former 42:5 formerly 9:8 40:6 forth 111:13 forward 102:21 111:17 found 22:12
escaping 44:4 especially 105:11 especiate 121:11 esquire 1:21 2:3,8,12 3:3 5:9 21:11,24 46:19 85:8 142:3 established 12:20 44:16 52:2 102:20 establishing 16:8 estate 65:16,18 Europe 7:12,13 evaluate 139:16 even 119:21	97:12,17,20 excuse 5:22 7:12 8:4 10:14 63:8 exhaust 37:23 exhibit 6:14,16 6:20 21:4,10 21:16 49:18 50:18 53:13 54:20 77:12 81:3 82:24 85:6,9 86:9,10 89:14 93:23 96:22,24 101:10 107:17 110:23,24 113:23 115:15 118:19 120:7 120:15 121:17 126:20 130:24	75:24 83:16 84:2 85:18 87:16 89:3 90:7,10,16 91:18,23 92:5 94:11,17 95:7 95:9,21 96:3 96:16 97:10 98:15 99:2,18 99:22 100:4,9 100:19 101:1 101:6 103:7 104:3 105:9 105:13 106:7 106:11 107:6 108:11 109:8 110:15 111:18 111:20 116:12 119:3,22 121:6 122:2,6	explanation 127:11,14 exposed 27:20 47:5 exposure 47:2,7 47:8 74:12 98:5 100:15 101:3 109:16 109:17 extent 80:22 e-mail 77:24 80:17 e-mails 47:22 47:24 F F 1:22 facilities 9:8	41:15 few 47:24 56:21 field 32:1 70:23 91:2 fields 68:11 figure 22:16,19 62:17 67:13 69:15 90:23 122:19,22 124:5 file 66:11 filed 17:16 28:8 28:17 filing 5:4 final 15:12 73:24 74:3 91:19 finalized 71:24 financial 36:22 find 23:24 30:8	following 84:7 follows 5:11 Ford 11:12 foregoing 122:1 142:4 144:11 form 5:6 80:13 99:9 104:19 107:1 117:14 129:21 130:10 133:17 142:8 formation 75:17,18 former 42:5 formerly 9:8 40:6 forth 111:13 forward 102:21 111:17
escaping 44:4 especially 105:11 especiate 121:11 esquire 1:21 2:3,8,12 3:3 5:9 21:11,24 46:19 85:8 142:3 established 12:20 44:16 52:2 102:20 establishing 16:8 estate 65:16,18 Europe 7:12,13 evaluate 139:16	97:12,17,20 excuse 5:22 7:12 8:4 10:14 63:8 exhaust 37:23 exhibit 6:14,16 6:20 21:4,10 21:16 49:18 50:18 53:13 54:20 77:12 81:3 82:24 85:6,9 86:9,10 89:14 93:23 96:22,24 101:10 107:17 110:23,24 113:23 115:15 118:19 120:7 120:15 121:17	75:24 83:16 84:2 85:18 87:16 89:3 90:7,10,16 91:18,23 92:5 94:11,17 95:7 95:9,21 96:3 96:16 97:10 98:15 99:2,18 99:22 100:4,9 100:19 101:1 101:6 103:7 104:3 105:9 105:13 106:7 106:11 107:6 108:11 109:8 110:15 111:18 111:20 116:12 119:3,22 121:6 122:2,6 123:7,9,14,17	explanation 127:11,14 exposed 27:20 47:5 exposure 47:2,7 47:8 74:12 98:5 100:15 101:3 109:16 109:17 extent 80:22 e-mail 77:24 80:17 e-mails 47:22 47:24 F F 1:22 facilities 9:8 40:13 76:17	41:15 few 47:24 56:21 field 32:1 70:23 91:2 fields 68:11 figure 22:16,19 62:17 67:13 69:15 90:23 122:19,22 124:5 file 66:11 filed 17:16 28:8 28:17 filing 5:4 final 15:12 73:24 74:3 91:19 finalized 71:24 financial 36:22	following 84:7 follows 5:11 Ford 11:12 foregoing 122:1 142:4 144:11 form 5:6 80:13 99:9 104:19 107:1 117:14 129:21 130:10 133:17 142:8 formation 75:17,18 former 42:5 formerly 9:8 40:6 forth 111:13 forward 102:21 111:17 found 22:12
escaping 44:4 especially 105:11 especiate 121:11 esquire 1:21 2:3,8,12 3:3 5:9 21:11,24 46:19 85:8 142:3 established 12:20 44:16 52:2 102:20 establishing 16:8 estate 65:16,18 Europe 7:12,13 evaluate 139:16 even 119:21	97:12,17,20 excuse 5:22 7:12 8:4 10:14 63:8 exhaust 37:23 exhibit 6:14,16 6:20 21:4,10 21:16 49:18 50:18 53:13 54:20 77:12 81:3 82:24 85:6,9 86:9,10 89:14 93:23 96:22,24 101:10 107:17 110:23,24 113:23 115:15 118:19 120:7 120:15 121:17 126:20 130:24	75:24 83:16 84:2 85:18 87:16 89:3 90:7,10,16 91:18,23 92:5 94:11,17 95:7 95:9,21 96:3 96:16 97:10 98:15 99:2,18 99:22 100:4,9 100:19 101:1 101:6 103:7 104:3 105:9 105:13 106:7 106:11 107:6 108:11 109:8 110:15 111:18 111:20 116:12 119:3,22 121:6 122:2,6	explanation 127:11,14 exposed 27:20 47:5 exposure 47:2,7 47:8 74:12 98:5 100:15 101:3 109:16 109:17 extent 80:22 e-mail 77:24 80:17 e-mails 47:22 47:24  F F 1:22 facilities 9:8 40:13 76:17 facility 28:3,21 43:11,11	41:15 few 47:24 56:21 field 32:1 70:23 91:2 fields 68:11 figure 22:16,19 62:17 67:13 69:15 90:23 122:19,22 124:5 file 66:11 filed 17:16 28:8 28:17 filing 5:4 final 15:12 73:24 74:3 91:19 finalized 71:24 financial 36:22 find 23:24 30:8	following 84:7 follows 5:11 Ford 11:12 foregoing 122:1 142:4 144:11 form 5:6 80:13 99:9 104:19 107:1 117:14 129:21 130:10 133:17 142:8 formation 75:17,18 former 42:5 formerly 9:8 40:6 forth 111:13 forward 102:21 111:17 found 22:12 30:20 34:15
escaping 44:4 especially 105:11 especiate 121:11 esquire 1:21 2:3,8,12 3:3 5:9 21:11,24 46:19 85:8 142:3 established 12:20 44:16 52:2 102:20 establishing 16:8 estate 65:16,18 Europe 7:12,13 evaluate 139:16 even 119:21 130:13 event 6:9 38:5	97:12,17,20 excuse 5:22 7:12 8:4 10:14 63:8 exhaust 37:23 exhibit 6:14,16 6:20 21:4,10 21:16 49:18 50:18 53:13 54:20 77:12 81:3 82:24 85:6,9 86:9,10 89:14 93:23 96:22,24 101:10 107:17 110:23,24 113:23 115:15 118:19 120:7 120:15 121:17 126:20 130:24 134:9 136:2	75:24 83:16 84:2 85:18 87:16 89:3 90:7,10,16 91:18,23 92:5 94:11,17 95:7 95:9,21 96:3 96:16 97:10 98:15 99:2,18 99:22 100:4,9 100:19 101:1 101:6 103:7 104:3 105:9 105:13 106:7 106:11 107:6 108:11 109:8 110:15 111:18 111:20 116:12 119:3,22 121:6 122:2,6 123:7,9,14,17	explanation 127:11,14 exposed 27:20 47:5 exposure 47:2,7 47:8 74:12 98:5 100:15 101:3 109:16 109:17 extent 80:22 e-mail 77:24 80:17 e-mails 47:22 47:24  F F 1:22 facilities 9:8 40:13 76:17 facility 28:3,21 43:11,11 47:18 52:20	41:15 few 47:24 56:21 field 32:1 70:23 91:2 fields 68:11 figure 22:16,19 62:17 67:13 69:15 90:23 122:19,22 124:5 file 66:11 filed 17:16 28:8 28:17 filing 5:4 final 15:12 73:24 74:3 91:19 finalized 71:24 financial 36:22 find 23:24 30:8 30:8 35:18	following 84:7 follows 5:11 Ford 11:12 foregoing 122:1 142:4 144:11 form 5:6 80:13 99:9 104:19 107:1 117:14 129:21 130:10 133:17 142:8 formation 75:17,18 former 42:5 formerly 9:8 40:6 forth 111:13 forward 102:21 111:17 found 22:12 30:20 34:15 71:1 four 21:15
escaping 44:4 especially 105:11 especiate 121:11 esquire 1:21 2:3,8,12 3:3 5:9 21:11,24 46:19 85:8 142:3 established 12:20 44:16 52:2 102:20 establishing 16:8 estate 65:16,18 Europe 7:12,13 evaluate 139:16 even 119:21 130:13 event 6:9 38:5 ever 9:13 13:20	97:12,17,20 excuse 5:22 7:12 8:4 10:14 63:8 exhaust 37:23 exhibit 6:14,16 6:20 21:4,10 21:16 49:18 50:18 53:13 54:20 77:12 81:3 82:24 85:6,9 86:9,10 89:14 93:23 96:22,24 101:10 107:17 110:23,24 113:23 115:15 118:19 120:7 120:15 121:17 126:20 130:24 134:9 136:2 exhibits 54:11 58:4	75:24 83:16 84:2 85:18 87:16 89:3 90:7,10,16 91:18,23 92:5 94:11,17 95:7 95:9,21 96:3 96:16 97:10 98:15 99:2,18 99:22 100:4,9 100:19 101:1 101:6 103:7 104:3 105:9 105:13 106:7 106:11 107:6 108:11 109:8 110:15 111:18 11:20 116:12 119:3,22 121:6 122:2,6 123:7,9,14,17 124:4,4,6,13 125:8,22,23	explanation 127:11,14 exposed 27:20 47:5 exposure 47:2,7 47:8 74:12 98:5 100:15 101:3 109:16 109:17 extent 80:22 e-mail 77:24 80:17 e-mails 47:22 47:24  F F 1:22 facilities 9:8 40:13 76:17 facility 28:3,21 43:11,11 47:18 52:20 55:3,5 57:9	41:15 few 47:24 56:21 field 32:1 70:23 91:2 fields 68:11 figure 22:16,19 62:17 67:13 69:15 90:23 122:19,22 124:5 file 66:11 filed 17:16 28:8 28:17 filing 5:4 final 15:12 73:24 74:3 91:19 finalized 71:24 financial 36:22 find 23:24 30:8 30:8 35:18 57:17 82:4 91:20 102:16	following 84:7 follows 5:11 Ford 11:12 foregoing 122:1 142:4 144:11 form 5:6 80:13 99:9 104:19 107:1 117:14 129:21 130:10 133:17 142:8 formation 75:17,18 former 42:5 formerly 9:8 40:6 forth 111:13 forward 102:21 111:17 found 22:12 30:20 34:15 71:1 four 21:15 58:20 137:18
escaping 44:4 especially 105:11 especiate 121:11 esquire 1:21 2:3,8,12 3:3 5:9 21:11,24 46:19 85:8 142:3 established 12:20 44:16 52:2 102:20 establishing 16:8 estate 65:16,18 Europe 7:12,13 evaluate 139:16 even 119:21 130:13 event 6:9 38:5 ever 9:13 13:20 19:16 21:8	97:12,17,20 excuse 5:22 7:12 8:4 10:14 63:8 exhaust 37:23 exhibit 6:14,16 6:20 21:4,10 21:16 49:18 50:18 53:13 54:20 77:12 81:3 82:24 85:6,9 86:9,10 89:14 93:23 96:22,24 101:10 107:17 110:23,24 113:23 115:15 118:19 120:7 120:15 121:17 126:20 130:24 134:9 136:2 exhibits 54:11 58:4 exide 1:6 3:20	75:24 83:16 84:2 85:18 87:16 89:3 90:7,10,16 91:18,23 92:5 94:11,17 95:7 95:9,21 96:3 96:16 97:10 98:15 99:2,18 99:22 100:4,9 100:19 101:1 101:6 103:7 104:3 105:9 105:13 106:7 106:11 107:6 108:11 109:8 110:15 111:18 111:20 116:12 119:3,22 121:6 122:2,6 123:7,9,14,17 124:4,4,6,13 125:8,22,23 126:10,12	explanation 127:11,14 exposed 27:20 47:5 exposure 47:2,7 47:8 74:12 98:5 100:15 101:3 109:16 109:17 extent 80:22 e-mail 77:24 80:17 e-mails 47:22 47:24  F F 1:22 facilities 9:8 40:13 76:17 facility 28:3,21 43:11,11 47:18 52:20 55:3,5 57:9 66:4,16 74:11	41:15 few 47:24 56:21 field 32:1 70:23 91:2 fields 68:11 figure 22:16,19 62:17 67:13 69:15 90:23 122:19,22 124:5 file 66:11 filed 17:16 28:8 28:17 filing 5:4 final 15:12 73:24 74:3 91:19 finalized 71:24 financial 36:22 find 23:24 30:8 30:8 35:18 57:17 82:4 91:20 102:16 fine 6:15,18	following 84:7 follows 5:11 Ford 11:12 foregoing 122:1 142:4 144:11 form 5:6 80:13 99:9 104:19 107:1 117:14 129:21 130:10 133:17 142:8 formation 75:17,18 former 42:5 formerly 9:8 40:6 forth 111:13 forward 102:21 111:17 found 22:12 30:20 34:15 71:1 four 21:15 58:20 137:18 fourth 31:8
escaping 44:4 especially 105:11 especiate 121:11 esquire 1:21 2:3,8,12 3:3 5:9 21:11,24 46:19 85:8 142:3 established 12:20 44:16 52:2 102:20 establishing 16:8 estate 65:16,18 Europe 7:12,13 evaluate 139:16 even 119:21 130:13 event 6:9 38:5 ever 9:13 13:20 19:16 21:8 22:15,19	97:12,17,20 excuse 5:22 7:12 8:4 10:14 63:8 exhaust 37:23 exhibit 6:14,16 6:20 21:4,10 21:16 49:18 50:18 53:13 54:20 77:12 81:3 82:24 85:6,9 86:9,10 89:14 93:23 96:22,24 101:10 107:17 110:23,24 113:23 115:15 118:19 120:7 120:15 121:17 126:20 130:24 134:9 136:2 exhibits 54:11 58:4 exide 1:6 3:20 6:24 7:11,12	75:24 83:16 84:2 85:18 87:16 89:3 90:7,10,16 91:18,23 92:5 94:11,17 95:7 95:9,21 96:3 96:16 97:10 98:15 99:2,18 99:22 100:4,9 100:19 101:1 101:6 103:7 104:3 105:9 105:13 106:7 106:11 107:6 108:11 109:8 110:15 111:18 111:20 116:12 119:3,22 121:6 122:2,6 123:7,9,14,17 124:4,4,6,13 125:8,22,23 126:10,12 128:9,13	explanation 127:11,14 exposed 27:20 47:5 exposure 47:2,7 47:8 74:12 98:5 100:15 101:3 109:16 109:17 extent 80:22 e-mail 77:24 80:17 e-mails 47:22 47:24  F F 1:22 facilities 9:8 40:13 76:17 facility 28:3,21 43:11,11 47:18 52:20 55:3,5 57:9 66:4,16 74:11 75:13,15 76:1	41:15 few 47:24 56:21 field 32:1 70:23 91:2 fields 68:11 figure 22:16,19 62:17 67:13 69:15 90:23 122:19,22 124:5 file 66:11 filed 17:16 28:8 28:17 filing 5:4 final 15:12 73:24 74:3 91:19 finalized 71:24 financial 36:22 find 23:24 30:8 30:8 35:18 57:17 82:4 91:20 102:16 fine 6:15,18 81:7 84:24	following 84:7 follows 5:11 Ford 11:12 foregoing 122:1 142:4 144:11 form 5:6 80:13 99:9 104:19 107:1 117:14 129:21 130:10 133:17 142:8 formation 75:17,18 former 42:5 formerly 9:8 40:6 forth 111:13 forward 102:21 111:17 found 22:12 30:20 34:15 71:1 four 21:15 58:20 137:18 fourth 31:8 102:10 119:20
escaping 44:4 especially 105:11 especiate 121:11 esquire 1:21 2:3,8,12 3:3 5:9 21:11,24 46:19 85:8 142:3 established 12:20 44:16 52:2 102:20 establishing 16:8 estate 65:16,18 Europe 7:12,13 evaluate 139:16 even 119:21 130:13 event 6:9 38:5 ever 9:13 13:20 19:16 21:8 22:15,19 23:17 29:4,7	97:12,17,20 excuse 5:22 7:12 8:4 10:14 63:8 exhaust 37:23 exhibit 6:14,16 6:20 21:4,10 21:16 49:18 50:18 53:13 54:20 77:12 81:3 82:24 85:6,9 86:9,10 89:14 93:23 96:22,24 101:10 107:17 110:23,24 113:23 115:15 118:19 120:7 120:15 121:17 126:20 130:24 134:9 136:2 exhibits 54:11 58:4 exide 1:6 3:20 6:24 7:11,12 7:13,15 9:18	75:24 83:16 84:2 85:18 87:16 89:3 90:7,10,16 91:18,23 92:5 94:11,17 95:7 95:9,21 96:3 96:16 97:10 98:15 99:2,18 99:22 100:4,9 100:19 101:1 101:6 103:7 104:3 105:9 105:13 106:7 106:11 107:6 108:11 109:8 110:15 111:18 111:20 116:12 119:3,22 121:6 122:2,6 123:7,9,14,17 124:4,4,6,13 125:8,22,23 126:10,12 128:9,13 129:6,10,16	explanation 127:11,14 exposed 27:20 47:5 exposure 47:2,7 47:8 74:12 98:5 100:15 101:3 109:16 109:17 extent 80:22 e-mail 77:24 80:17 e-mails 47:22 47:24  F F 1:22 facilities 9:8 40:13 76:17 facility 28:3,21 43:11,11 47:18 52:20 55:3,5 57:9 66:4,16 74:11 75:13,15 76:1 76:5 85:18	41:15 few 47:24 56:21 field 32:1 70:23 91:2 fields 68:11 figure 22:16,19 62:17 67:13 69:15 90:23 122:19,22 124:5 file 66:11 filed 17:16 28:8 28:17 filing 5:4 final 15:12 73:24 74:3 91:19 finalized 71:24 financial 36:22 find 23:24 30:8 30:8 35:18 57:17 82:4 91:20 102:16 fine 6:15,18 81:7 84:24 130:2	following 84:7 follows 5:11 Ford 11:12 foregoing 122:1 142:4 144:11 form 5:6 80:13 99:9 104:19 107:1 117:14 129:21 130:10 133:17 142:8 formation 75:17,18 former 42:5 formerly 9:8 40:6 forth 111:13 forward 102:21 111:17 found 22:12 30:20 34:15 71:1 four 21:15 58:20 137:18 fourth 31:8 102:10 119:20 frame 46:5
escaping 44:4 especially 105:11 especiate 121:11 esquire 1:21 2:3,8,12 3:3 5:9 21:11,24 46:19 85:8 142:3 established 12:20 44:16 52:2 102:20 establishing 16:8 estate 65:16,18 Europe 7:12,13 evaluate 139:16 even 119:21 130:13 event 6:9 38:5 ever 9:13 13:20 19:16 21:8 22:15,19 23:17 29:4,7 38:19 39:4	97:12,17,20 excuse 5:22 7:12 8:4 10:14 63:8 exhaust 37:23 exhibit 6:14,16 6:20 21:4,10 21:16 49:18 50:18 53:13 54:20 77:12 81:3 82:24 85:6,9 86:9,10 89:14 93:23 96:22,24 101:10 107:17 110:23,24 113:23 115:15 118:19 120:7 120:15 121:17 126:20 130:24 134:9 136:2 exhibits 54:11 58:4 exide 1:6 3:20 6:24 7:11,12 7:13,15 9:18 11:6 13:20	75:24 83:16 84:2 85:18 87:16 89:3 90:7,10,16 91:18,23 92:5 94:11,17 95:7 95:9,21 96:3 96:16 97:10 98:15 99:2,18 99:22 100:4,9 100:19 101:1 101:6 103:7 104:3 105:9 105:13 106:7 106:11 107:6 108:11 109:8 110:15 111:18 111:20 116:12 119:3,22 121:6 122:2,6 123:7,9,14,17 124:4,4,6,13 125:8,22,23 126:10,12 128:9,13 129:6,10,16 130:4,16,20	explanation 127:11,14 exposed 27:20 47:5 exposure 47:2,7 47:8 74:12 98:5 100:15 101:3 109:16 109:17 extent 80:22 e-mail 77:24 80:17 e-mails 47:22 47:24  F F 1:22 facilities 9:8 40:13 76:17 facility 28:3,21 43:11,11 47:18 52:20 55:3,5 57:9 66:4,16 74:11 75:13,15 76:1 76:5 85:18 87:17 88:14	41:15 few 47:24 56:21 field 32:1 70:23 91:2 fields 68:11 figure 22:16,19 62:17 67:13 69:15 90:23 122:19,22 124:5 file 66:11 filed 17:16 28:8 28:17 filing 5:4 final 15:12 73:24 74:3 91:19 finalized 71:24 financial 36:22 find 23:24 30:8 30:8 35:18 57:17 82:4 91:20 102:16 fine 6:15,18 81:7 84:24 130:2 fines 61:13,19	following 84:7 follows 5:11 Ford 11:12 foregoing 122:1 142:4 144:11 form 5:6 80:13 99:9 104:19 107:1 117:14 129:21 130:10 133:17 142:8 formation 75:17,18 former 42:5 formerly 9:8 40:6 forth 111:13 forward 102:21 111:17 found 22:12 30:20 34:15 71:1 four 21:15 58:20 137:18 fourth 31:8 102:10 119:20 frame 46:5 133:1
escaping 44:4 especially 105:11 especiate 121:11 esquire 1:21 2:3,8,12 3:3 5:9 21:11,24 46:19 85:8 142:3 established 12:20 44:16 52:2 102:20 establishing 16:8 estate 65:16,18 Europe 7:12,13 evaluate 139:16 even 119:21 130:13 event 6:9 38:5 ever 9:13 13:20 19:16 21:8 22:15,19 23:17 29:4,7 38:19 39:4 44:6 45:1,5	97:12,17,20 excuse 5:22 7:12 8:4 10:14 63:8 exhaust 37:23 exhibit 6:14,16 6:20 21:4,10 21:16 49:18 50:18 53:13 54:20 77:12 81:3 82:24 85:6,9 86:9,10 89:14 93:23 96:22,24 101:10 107:17 110:23,24 113:23 115:15 118:19 120:7 120:15 121:17 126:20 130:24 134:9 136:2 exhibits 54:11 58:4 exide 1:6 3:20 6:24 7:11,12 7:13,15 9:18 11:6 13:20 16:24 17:4,8	75:24 83:16 84:2 85:18 87:16 89:3 90:7,10,16 91:18,23 92:5 94:11,17 95:7 95:9,21 96:3 96:16 97:10 98:15 99:2,18 99:22 100:4,9 100:19 101:1 101:6 103:7 104:3 105:9 105:13 106:7 106:11 107:6 108:11 109:8 110:15 111:18 111:20 116:12 119:3,22 121:6 122:2,6 123:7,9,14,17 124:4,4,6,13 125:8,22,23 126:10,12 128:9,13 129:6,10,16 130:4,16,20 131:3,10,12	explanation 127:11,14 exposed 27:20 47:5 exposure 47:2,7 47:8 74:12 98:5 100:15 101:3 109:16 109:17 extent 80:22 e-mail 77:24 80:17 e-mails 47:22 47:24  F F 1:22 facilities 9:8 40:13 76:17 facility 28:3,21 43:11,11 47:18 52:20 55:3,5 57:9 66:4,16 74:11 75:13,15 76:1 76:5 85:18 87:17 88:14 fact 8:24 57:10	41:15 few 47:24 56:21 field 32:1 70:23 91:2 fields 68:11 figure 22:16,19 62:17 67:13 69:15 90:23 122:19,22 124:5 file 66:11 filed 17:16 28:8 28:17 filing 5:4 final 15:12 73:24 74:3 91:19 finalized 71:24 financial 36:22 find 23:24 30:8 30:8 35:18 57:17 82:4 91:20 102:16 fine 6:15,18 81:7 84:24 130:2 fines 61:13,19 61:19 62:1	following 84:7 follows 5:11 Ford 11:12 foregoing 122:1 142:4 144:11 form 5:6 80:13 99:9 104:19 107:1 117:14 129:21 130:10 133:17 142:8 formation 75:17,18 former 42:5 formerly 9:8 40:6 forth 111:13 forward 102:21 111:17 found 22:12 30:20 34:15 71:1 four 21:15 58:20 137:18 fourth 31:8 102:10 119:20 frame 46:5 133:1 frankly 133:11
escaping 44:4 especially 105:11 especiate 121:11 esquire 1:21 2:3,8,12 3:3 5:9 21:11,24 46:19 85:8 142:3 established 12:20 44:16 52:2 102:20 establishing 16:8 estate 65:16,18 Europe 7:12,13 evaluate 139:16 even 119:21 130:13 event 6:9 38:5 ever 9:13 13:20 19:16 21:8 22:15,19 23:17 29:4,7 38:19 39:4 44:6 45:1,5 89:3,5,20 90:1	97:12,17,20 excuse 5:22 7:12 8:4 10:14 63:8 exhaust 37:23 exhibit 6:14,16 6:20 21:4,10 21:16 49:18 50:18 53:13 54:20 77:12 81:3 82:24 85:6,9 86:9,10 89:14 93:23 96:22,24 101:10 107:17 110:23,24 113:23 115:15 118:19 120:7 120:15 121:17 126:20 130:24 134:9 136:2 exhibits 54:11 58:4 exide 1:6 3:20 6:24 7:11,12 7:13,15 9:18 11:6 13:20 16:24 17:4,8 17:18,19,24	75:24 83:16 84:2 85:18 87:16 89:3 90:7,10,16 91:18,23 92:5 94:11,17 95:7 95:9,21 96:3 96:16 97:10 98:15 99:2,18 99:22 100:4,9 100:19 101:1 101:6 103:7 104:3 105:9 105:13 106:7 106:11 107:6 108:11 109:8 110:15 111:18 111:20 116:12 119:3,22 121:6 122:2,6 123:7,9,14,17 124:4,4,6,13 125:8,22,23 126:10,12 128:9,13 129:6,10,16 130:4,16,20 131:3,10,12 131:14,22	explanation 127:11,14 exposed 27:20 47:5 exposure 47:2,7 47:8 74:12 98:5 100:15 101:3 109:16 109:17 extent 80:22 e-mail 77:24 80:17 e-mails 47:22 47:24  F F 1:22 facilities 9:8 40:13 76:17 facility 28:3,21 43:11,11 47:18 52:20 55:3,5 57:9 66:4,16 74:11 75:13,15 76:1 76:5 85:18 87:17 88:14 fact 8:24 57:10 79:19 89:6	41:15 few 47:24 56:21 field 32:1 70:23 91:2 fields 68:11 figure 22:16,19 62:17 67:13 69:15 90:23 122:19,22 124:5 file 66:11 filed 17:16 28:8 28:17 filing 5:4 final 15:12 73:24 74:3 91:19 finalized 71:24 financial 36:22 find 23:24 30:8 30:8 35:18 57:17 82:4 91:20 102:16 fine 6:15,18 81:7 84:24 130:2 fines 61:13,19 61:19 62:1 finger 14:22	following 84:7 follows 5:11 Ford 11:12 foregoing 122:1 142:4 144:11 form 5:6 80:13 99:9 104:19 107:1 117:14 129:21 130:10 133:17 142:8 formation 75:17,18 former 42:5 formerly 9:8 40:6 forth 111:13 forward 102:21 111:17 found 22:12 30:20 34:15 71:1 four 21:15 58:20 137:18 fourth 31:8 102:10 119:20 frame 46:5 133:1 frankly 133:11 Frear 60:19,20
escaping 44:4 especially 105:11 especiate 121:11 esquire 1:21 2:3,8,12 3:3 5:9 21:11,24 46:19 85:8 142:3 established 12:20 44:16 52:2 102:20 establishing 16:8 estate 65:16,18 Europe 7:12,13 evaluate 139:16 even 119:21 130:13 event 6:9 38:5 ever 9:13 13:20 19:16 21:8 22:15,19 23:17 29:4,7 38:19 39:4 44:6 45:1,5	97:12,17,20 excuse 5:22 7:12 8:4 10:14 63:8 exhaust 37:23 exhibit 6:14,16 6:20 21:4,10 21:16 49:18 50:18 53:13 54:20 77:12 81:3 82:24 85:6,9 86:9,10 89:14 93:23 96:22,24 101:10 107:17 110:23,24 113:23 115:15 118:19 120:7 120:15 121:17 126:20 130:24 134:9 136:2 exhibits 54:11 58:4 exide 1:6 3:20 6:24 7:11,12 7:13,15 9:18 11:6 13:20 16:24 17:4,8	75:24 83:16 84:2 85:18 87:16 89:3 90:7,10,16 91:18,23 92:5 94:11,17 95:7 95:9,21 96:3 96:16 97:10 98:15 99:2,18 99:22 100:4,9 100:19 101:1 101:6 103:7 104:3 105:9 105:13 106:7 106:11 107:6 108:11 109:8 110:15 111:18 111:20 116:12 119:3,22 121:6 122:2,6 123:7,9,14,17 124:4,4,6,13 125:8,22,23 126:10,12 128:9,13 129:6,10,16 130:4,16,20 131:3,10,12	explanation 127:11,14 exposed 27:20 47:5 exposure 47:2,7 47:8 74:12 98:5 100:15 101:3 109:16 109:17 extent 80:22 e-mail 77:24 80:17 e-mails 47:22 47:24  F F 1:22 facilities 9:8 40:13 76:17 facility 28:3,21 43:11,11 47:18 52:20 55:3,5 57:9 66:4,16 74:11 75:13,15 76:1 76:5 85:18 87:17 88:14 fact 8:24 57:10	41:15 few 47:24 56:21 field 32:1 70:23 91:2 fields 68:11 figure 22:16,19 62:17 67:13 69:15 90:23 122:19,22 124:5 file 66:11 filed 17:16 28:8 28:17 filing 5:4 final 15:12 73:24 74:3 91:19 finalized 71:24 financial 36:22 find 23:24 30:8 30:8 35:18 57:17 82:4 91:20 102:16 fine 6:15,18 81:7 84:24 130:2 fines 61:13,19 61:19 62:1 finger 14:22 15:3,6 27:6,7	following 84:7 follows 5:11 Ford 11:12 foregoing 122:1 142:4 144:11 form 5:6 80:13 99:9 104:19 107:1 117:14 129:21 130:10 133:17 142:8 formation 75:17,18 former 42:5 formerly 9:8 40:6 forth 111:13 forward 102:21 111:17 found 22:12 30:20 34:15 71:1 four 21:15 58:20 137:18 fourth 31:8 102:10 119:20 frame 46:5 133:1 frankly 133:11
escaping 44:4 especially 105:11 especiate 121:11 esquire 1:21 2:3,8,12 3:3 5:9 21:11,24 46:19 85:8 142:3 established 12:20 44:16 52:2 102:20 establishing 16:8 estate 65:16,18 Europe 7:12,13 evaluate 139:16 even 119:21 130:13 event 6:9 38:5 ever 9:13 13:20 19:16 21:8 22:15,19 23:17 29:4,7 38:19 39:4 44:6 45:1,5 89:3,5,20 90:1	97:12,17,20 excuse 5:22 7:12 8:4 10:14 63:8 exhaust 37:23 exhibit 6:14,16 6:20 21:4,10 21:16 49:18 50:18 53:13 54:20 77:12 81:3 82:24 85:6,9 86:9,10 89:14 93:23 96:22,24 101:10 107:17 110:23,24 113:23 115:15 118:19 120:7 120:15 121:17 126:20 130:24 134:9 136:2 exhibits 54:11 58:4 exide 1:6 3:20 6:24 7:11,12 7:13,15 9:18 11:6 13:20 16:24 17:4,8 17:18,19,24	75:24 83:16 84:2 85:18 87:16 89:3 90:7,10,16 91:18,23 92:5 94:11,17 95:7 95:9,21 96:3 96:16 97:10 98:15 99:2,18 99:22 100:4,9 100:19 101:1 101:6 103:7 104:3 105:9 105:13 106:7 106:11 107:6 108:11 109:8 110:15 111:18 111:20 116:12 119:3,22 121:6 122:2,6 123:7,9,14,17 124:4,4,6,13 125:8,22,23 126:10,12 128:9,13 129:6,10,16 130:4,16,20 131:3,10,12 131:14,22	explanation 127:11,14 exposed 27:20 47:5 exposure 47:2,7 47:8 74:12 98:5 100:15 101:3 109:16 109:17 extent 80:22 e-mail 77:24 80:17 e-mails 47:22 47:24  F F 1:22 facilities 9:8 40:13 76:17 facility 28:3,21 43:11,11 47:18 52:20 55:3,5 57:9 66:4,16 74:11 75:13,15 76:1 76:5 85:18 87:17 88:14 fact 8:24 57:10 79:19 89:6	41:15 few 47:24 56:21 field 32:1 70:23 91:2 fields 68:11 figure 22:16,19 62:17 67:13 69:15 90:23 122:19,22 124:5 file 66:11 filed 17:16 28:8 28:17 filing 5:4 final 15:12 73:24 74:3 91:19 finalized 71:24 financial 36:22 find 23:24 30:8 30:8 35:18 57:17 82:4 91:20 102:16 fine 6:15,18 81:7 84:24 130:2 fines 61:13,19 61:19 62:1 finger 14:22	following 84:7 follows 5:11 Ford 11:12 foregoing 122:1 142:4 144:11 form 5:6 80:13 99:9 104:19 107:1 117:14 129:21 130:10 133:17 142:8 formation 75:17,18 former 42:5 formerly 9:8 40:6 forth 111:13 forward 102:21 111:17 found 22:12 30:20 34:15 71:1 four 21:15 58:20 137:18 fourth 31:8 102:10 119:20 frame 46:5 133:1 frankly 133:11 Frear 60:19,20
escaping 44:4 especially 105:11 especiate 121:11 esquire 1:21 2:3,8,12 3:3 5:9 21:11,24 46:19 85:8 142:3 established 12:20 44:16 52:2 102:20 establishing 16:8 estate 65:16,18 Europe 7:12,13 evaluate 139:16 even 119:21 130:13 event 6:9 38:5 ever 9:13 13:20 19:16 21:8 22:15,19 23:17 29:4,7 38:19 39:4 44:6 45:1,5 89:3,5,20 90:1 94:4,5 98:15	97:12,17,20 excuse 5:22 7:12 8:4 10:14 63:8 exhaust 37:23 exhibit 6:14,16 6:20 21:4,10 21:16 49:18 50:18 53:13 54:20 77:12 81:3 82:24 85:6,9 86:9,10 89:14 93:23 96:22,24 101:10 107:17 110:23,24 113:23 115:15 118:19 120:7 120:15 121:17 126:20 130:24 134:9 136:2 exhibits 54:11 58:4 exide 1:6 3:20 6:24 7:11,12 7:13,15 9:18 11:6 13:20 16:24 17:4,8 17:18,19,24 18:1,12,16,17	75:24 83:16 84:2 85:18 87:16 89:3 90:7,10,16 91:18,23 92:5 94:11,17 95:7 95:9,21 96:3 96:16 97:10 98:15 99:2,18 99:22 100:4,9 100:19 101:1 101:6 103:7 104:3 105:9 105:13 106:7 106:11 107:6 108:11 109:8 110:15 111:18 111:20 116:12 119:3,22 121:6 122:2,6 123:7,9,14,17 124:4,4,6,13 125:8,22,23 126:10,12 128:9,13 129:6,10,16 130:4,16,20 131:3,10,12 131:14,22 132:17 133:22	explanation 127:11,14 exposed 27:20 47:5 exposure 47:2,7 47:8 74:12 98:5 100:15 101:3 109:16 109:17 extent 80:22 e-mail 77:24 80:17 e-mails 47:22 47:24  F F 1:22 facilities 9:8 40:13 76:17 facility 28:3,21 43:11,11 47:18 52:20 55:3,5 57:9 66:4,16 74:11 75:13,15 76:1 76:5 85:18 87:17 88:14 fact 8:24 57:10 79:19 89:6 106:10 factor 130:18	41:15 few 47:24 56:21 field 32:1 70:23 91:2 fields 68:11 figure 22:16,19 62:17 67:13 69:15 90:23 122:19,22 124:5 file 66:11 filed 17:16 28:8 28:17 filing 5:4 final 15:12 73:24 74:3 91:19 finalized 71:24 financial 36:22 find 23:24 30:8 30:8 35:18 57:17 82:4 91:20 102:16 fine 6:15,18 81:7 84:24 130:2 fines 61:13,19 61:19 62:1 finger 14:22 15:3,6 27:6,7	following 84:7 follows 5:11 Ford 11:12 foregoing 122:1 142:4 144:11 form 5:6 80:13 99:9 104:19 107:1 117:14 129:21 130:10 133:17 142:8 formation 75:17,18 former 42:5 formerly 9:8 40:6 forth 111:13 forward 102:21 111:17 found 22:12 30:20 34:15 71:1 four 21:15 58:20 137:18 fourth 31:8 102:10 119:20 frame 46:5 133:1 frankly 133:11 Frear 60:19,20 61:4
escaping 44:4 especially 105:11 especiate 121:11 esquire 1:21 2:3,8,12 3:3 5:9 21:11,24 46:19 85:8 142:3 established 12:20 44:16 52:2 102:20 establishing 16:8 estate 65:16,18 Europe 7:12,13 evaluate 139:16 even 119:21 130:13 event 6:9 38:5 ever 9:13 13:20 19:16 21:8 22:15,19 23:17 29:4,7 38:19 39:4 44:6 45:1,5 89:3,5,20 90:1 94:4,5 98:15 98:19 100:9	97:12,17,20 excuse 5:22 7:12 8:4 10:14 63:8 exhaust 37:23 exhibit 6:14,16 6:20 21:4,10 21:16 49:18 50:18 53:13 54:20 77:12 81:3 82:24 85:6,9 86:9,10 89:14 93:23 96:22,24 101:10 107:17 110:23,24 113:23 115:15 118:19 120:7 120:15 121:17 126:20 130:24 134:9 136:2 exhibits 54:11 58:4 exide 1:6 3:20 6:24 7:11,12 7:13,15 9:18 11:6 13:20 16:24 17:4,8 17:18,19,24 18:1,12,16,17 19:6,7,12,14	75:24 83:16 84:2 85:18 87:16 89:3 90:7,10,16 91:18,23 92:5 94:11,17 95:7 95:9,21 96:3 96:16 97:10 98:15 99:2,18 99:22 100:4,9 100:19 101:1 101:6 103:7 104:3 105:9 105:13 106:7 106:11 107:6 108:11 109:8 110:15 111:18 111:20 116:12 119:3,22 121:6 122:2,6 123:7,9,14,17 124:4,4,6,13 125:8,22,23 126:10,12 128:9,13 129:6,10,16 130:4,16,20 131:3,10,12 131:14,22 132:17 133:22 134:21 135:9	explanation 127:11,14 exposed 27:20 47:5 exposure 47:2,7 47:8 74:12 98:5 100:15 101:3 109:16 109:17 extent 80:22 e-mail 77:24 80:17 e-mails 47:22 47:24  F F 1:22 facilities 9:8 40:13 76:17 facility 28:3,21 43:11,11 47:18 52:20 55:3,5 57:9 66:4,16 74:11 75:13,15 76:1 76:5 85:18 87:17 88:14 fact 8:24 57:10 79:19 89:6 106:10	41:15 few 47:24 56:21 field 32:1 70:23 91:2 fields 68:11 figure 22:16,19 62:17 67:13 69:15 90:23 122:19,22 124:5 file 66:11 filed 17:16 28:8 28:17 filing 5:4 final 15:12 73:24 74:3 91:19 finalized 71:24 financial 36:22 find 23:24 30:8 30:8 35:18 57:17 82:4 91:20 102:16 fine 6:15,18 81:7 84:24 130:2 fines 61:13,19 61:19 62:1 finger 14:22 15:3,6 27:6,7 finished 15:9	following 84:7 follows 5:11 Ford 11:12 foregoing 122:1 142:4 144:11 form 5:6 80:13 99:9 104:19 107:1 117:14 129:21 130:10 133:17 142:8 formation 75:17,18 former 42:5 formerly 9:8 40:6 forth 111:13 forward 102:21 111:17 found 22:12 30:20 34:15 71:1 four 21:15 58:20 137:18 fourth 31:8 102:10 119:20 frame 46:5 133:1 frankly 133:11 Frear 60:19,20 61:4 Fred 60:10

78:1 79:4 80:9   108:15,17   113:5   high 26:10,18   96:4,17   54:5,23 55:18   81:4 84:15   111:4 113:23   greater 27:8   51:4 83:9,11   identifying   55:20 56:2,9   91:4 96:10   58:17,19   107:12,13,13   127:15 128:1   Greer 9:11   100:13 136:14   42:19 63:3   increased 37:20   107:12,13,13   127:15 128:1   Greer 9:11   100:13 136:14   42:19 63:3   increased 37:20   111:3 112:13   133:16 139:22   38:20 41:24   Hight 29:23   118:6,9   88:2,17 99:12   114:4,10,11   general 3:11   47:18 55:3   high-proirty   118:6,9   122:1 125:1   49:16 52:4   66:17 74:11   129:1 130:24   76:11 83:20   85:19 88:13   131:12,14   103:9   136:6,8   Generally   136:6,8   Generally   138:10 139:23   83:22   frustrated   131:12   13:23 42:1,18   frustration   11:16   139:8   42:22 62:23   48:24 49:22   high-prointy   frustration   42:22 62:23   48:6 95:21   fugitive 44:3,7   full 114:5   fugitive 44:3,7   full 114:5   function 61:8   function 61:3	78:7					·
From 44.48.16   20:17 21:1   32:13 4.48   35:16 36:11   38:13 84:20   20:11 21:10   49:16 55:22   35:42.34 99:13   23:19.27:15   56:6.11 58.8   115:20 119-6   114:14°136:15   116:16 118:20   13:20 31:34   14:16   13:20	1 /0./	5.22 6.15		. 62.0 64.12 17	77.12 02.1	77.10 00.10
8:18 13:1.5   26:12 24:8   50:20 65:19   697.15:21   797.10   71.11   11.21   12.21   79.11   11.20 119:6   77.5	7					
15:13.13.14   35:42.23 49:13   20:11 12:10   49:16.55:22   10:37:10   11:10   49:16.55:22   11:12:11   25:11.19.27:15   56:66.11.58.8   115:20.119-6   11:13:16.11.8:20   13:17:17   13:18.13.8:16.18   13:18.18.16.15   13:18.18.18.16.15   13:18.18.18.16.15   13:18.18.18.18.18.18.18.18   13:18.18.18.18   13:18.18.18.18.18   13:18.18.18.18   13:18.18.18.18   13:18.18.18.18   13:18.18.18.18   13:18.18.18   13:18.18.18   13:18.18.18   13:18.18   13:18.18.18   13:18.18   13:18.18   13:18.18   13:18.18   13:18.18   13:18.18   13:18.18   13:18.18   13:18   13						
20:11   21:10   49:16   55:22   109:3,7   115:4   114:14   13:6:15   13:6:13   13:6:14   13:6:15   13:6:13   13:6:14   13:6:15   13:6:		26:12 34:8				
25:1,19 27:15   56:6,11 58:8   115:20 119:6   13:17   34:14 35:16   78:5 80:13   36:7 37:16   81:5,24 48:28   38:2 44:7   82:17,21   47:22 50:16   84:15,24   126:3   162:59:9   162:59:9   53:6,16,19   91:22 92:14   56:13 63:1   104:19 124:5   56:13 63:1   104:19 124:5   56:13 63:1   104:19 124:5   56:13 63:1   104:19 124:5   56:13 63:1   104:19 124:5   56:13 63:1   105:5 107:1   178:1 79:14   105:5 107:1   13:5   111:4 113:23   85:2.4 86:23   177:14 119:11   13:2   13:15   13:11   13:12   13:13   107:24 1101   12:20   13:10   13:10   13:11   13:12   13:13   107:24 1101   12:20   13:10   13:10   13:10   13:11   13:12   13:13   107:24 101   12:20   13:10   13:10   13:11   13:12   13:13   13:12   13:14   13:23   13:10   13:12   13:14   13:23   13:16   13:22   13:16   13:20   13:10   13:20   13:10   13:20   13:11   13:21   13:24 67:7   13:27   13:10   13:20   13:11   13:24 67:7   13:24 67:7   13:27   13:27   13:29   100:91 00:23   13:12   13:24 12:1   13:	15:13,13,14		81:3 84:20	100:10 105:23	97:1 101:11	
2719,24 30:9   59:3 72:23   34:14 35:16   126:21 134:10   104:16 129:3   136:17   136:3   136:3   13	20:11 21:10	49:16 55:22	109:3,7 115:4	114:14 136:15	107:18 111:1	including 83:2
2719,24 30:9   59:3 72:23   34:14 35:16   126:21 134:10   104:16 129:3   136:17   136:3   136:3   13	25:1,19 27:15	56:6,11 58:8	115:20 119:6	hearing 18:5.7	115:16 118:20	87:6 92:24
36:14 35:16   86:17   86:13   136:3   136:3   136:3   136:13   136:14   136:3   136:14   136:3   136:14   136:15   136						
36:7 37:16   81:5.24 82:8   38:24 47: 82:17.21   47:22 50:16   84:15.24   50:21 52:19   89:19 90:5   53:6.16.19   91:22 92:14   78:16 80:29   11:12 112:3   54:14.84   11:32   104:19.24   77:16 73:14   105:15 107:1   78:17 93:480:9   81:4 84:15   11:14 113:23   85:2.4 86:23   87:10 92:24   11:12 113:5   87:10 92:24   11:12 113:5   11:12 113   12:13   107:24 110:11   129:20 130:10   23:15 28.39   11:12 113   12:13   133:16 139:2   38:20 41:24   13:13   13:12   13:23   13:12   13:23   13:12   13:23   13:12   13:23   13:12   13:23   13:12   13:23   13:12   13:23   13:12   13:23   13:12   13:23   13:12   13:23   13:13   13:23   13:23   13:24   13:23   13:12   13:23   13:12   13:23   13:13   13:23   13:23   13:24   13:24				l .		
38:24.47   36:21   32:20   32:20   83:23   36:20   50:21   52:19   53:61.61   91:22   92:31   53:61.63:1   104:19.24   56:13   63:1   104:19.24   78:17.94   80.9   108:15.17   13:5   85:24.86:23   111:4   119:11   87:10   92:24   119:16   120:8   113:5   113:5   113:5   113:5   107:24   113:1   13:21   13:31:6   139:23   139:24   132:4   123:24   133:24   123:24   133:24   123:24   133	1					
47:22 50:16   84:15.24   50:21 52:19   89:10 90:5   53:6.16.19   91:12 20:214   54:14.24   99:92.4 102:4   54:13.24   24:12   53:13.21   104:19.24   70:16 73:14   105:15 107:1   78:17 80:9   78:16 80:24   70:16 73:14   105:19   78:16 80:24   70:16 73:1						1
Social Scing   99:12 92:14   53:4.14.24   99:9.24 102:4   56:13 63:1   104:19.24   105:5 107:1   113:5   113:5   113:5   113:6   113						
53:6.16,19   91:22 92:14   54:13 63:14   59:9,24 102:4   56:13 63:1   104:19.24   104:19.24   104:19.24   108:15.17   118:13   108:15.17   118:14   113:23   118:14   113:25   119:14   113:25   119:16 120:8   95:11 101:14   121:19 124:8   107:12,13,13   127:15 128:1   107:24 110:11   129:20 130:10   133:16 139:22   133:16 139:22   133:16 139:22   133:16 139:22   133:16 139:22   133:18   122:15 123:19   144:5   103:19   111:12   132:34 22:1,18   133:12,14   119:14   133:23 42:1,18   133:10 139:23   133:10 139:23   133:10 139:29   136:6.8   Generally 111:12   132:34 22:1,18   133:19   109:9   109:9   109:9   109:9   109:9   109:9   109:9   109:9   109:9   109:9   109:9   109:10   100:13   130:10   130:14   130:12   130:12   130:13   130:10   130:13   130:10   130:13   130:10   130:13   130:10   130:13   130:10   130:13   130:10   130:13   130:10   130:13   130:10   130:13   130:10   130:13   130:10   130:13   130:10   130:13   130:10   130:13   130:10   130:13   130:10   130:13   130:10   130:13   130:10   130:13   130:10   130:13		1				i .
Secondary   Seco						
56:13 63:14   104:19,24   great 31:11   113:5   more rest 53:21   108:15,17   108:15,17   108:15,17   108:15,17   108:15,17   108:15,17   108:20,22   119:16   120:8   53:11 101:14   121:19   124:8   54:11 34:13   107:24   110:11   121:19   124:8   54:11 34:13   107:24   110:11   121:19   124:8   54:11 34:13   107:24   110:11   121:19   133:16   139:22   38:20   41:24   122:11   125:1   49:16   52:4   40:17   123:12   123:18   133:16   139:22   136:68   Generally   133:10   139:23   133:10   139:23   133:10   139:23   133:10   139:23   133:10   139:23   133:10   139:23   133:10   139:23   133:10   139:23   133:10   139:23   133:10   139:23   133:10   139:23   133:10   139:23   133:10   139:23   133:10   139:23   133:10   139:23   133:10   139:23   111:12   13:23   42:11,18   13:23   42:11,18   13:23   42:11,18   13:23   42:11,18   13:23   42:11,18   13:23   42:11,18   13:23   42:13   13:34   42:22   62:23   43:69   52:10   15:60   101:4   43:57:78   100:91   100:91   00:62   137:10   00:10   100:10   100:10   100:10   100:10   100:10   100:10   100:10   100:10   100:10   100:10   100:10   100:10   100:10   130:10   100:10   130:10   100:10   130:10   100:10   130:10   100:10   130:10   100:10   130:10   100:10   130:10   100	· ·					l - i
70:16-73:14   105:5 107:1   13:5   13:11   13:14   13:13   13:14   13:14   13:13   13:14   13:14   13:13   13:14   13:15   13:14   13:15   13:15   13:14   13:15   1						Incorporated
103   103	56:13 63:1	104:19,24	gray 2:8 84:15	57:20 136:6	30:12 45:21	9:17
78:179:480:9   108:15,17   113:5   113:1   113:5   113:1   113:5   113:1   113:5   113:1   113:5   113:1   113:5   113:1   113:1   113:5   113:1   113:1   113:5   113:1   113:1   113:1   113:1   113:5   113:1   1	70:16 73:14	105:5 107:1	great 31:11	Heriong's 6:11	62:14 91:13	incorrect 53:21
Siz.4 86:23	78:1 79:4 80:9				96:4.17	
87:10 92:24   119:16 120:8   2:10 53:17   35:14.16   119:16 120:8   2:10 53:17   35:14.16   119:13 129:20 130:10   129:20 130:10   129:20 130:10   129:20 130:10   129:20 130:10   129:20 130:10   129:20 130:10   129:20 130:10   129:20 130:10   129:20 130:10   129:20 130:10   129:20 130:10   129:20 130:10   129:20 130:10   129:20 130:10   129:20 130:10   129:20 130:10   129:20 130:10   129:20 130:10   129:21 130:24   7:11,19 8:8,23   47:18 55:3   44:13   138:10 139:23   136:6 8   20 61:7 69:11   138:20   136:6 8   20 61:7 69:11   138:20   136:6 8   20 60:17 74:11   58:23 73:10   111:12   132:34 2:1,18   58:23 73:10   56:5,11 81:4   14:5   111:12   132:34 2:1,18   58:23 73:10   111:16   139:8   42:22 62:23   43:5,6 45:9   48:24 49:22   48:24 49:22   48:24 69:23   111:15   139:8   110:15   139:8   100:9 106:23   66:19 81:13   100:9 106:23   66:19 81:13   100:9 106:23   66:19 81:13   100:9 106:23   66:19 81:13   100:9 106:23   66:19 81:13   100:9 106:23   66:19 81:13   100:9 106:23   66:19 81:13   100:9 106:23   66:19 81:13   100:9 106:23   66:19 81:13   100:9 106:23   66:19 81:13   100:9 106:23   66:19 81:13   100:9 106:23   66:19 81:13   100:9 106:23   66:19 81:13   100:9 106:23   66:19 81:13   100:9 106:23   60:9 81:15   137:10   100:9 106:23   60:9 81:15   137:10   100:9 106:23   60:9 81:15   137:10   100:9 106:23   60:9 8:15   137:10   100:9 10:9 13:10   100:9 13:						
87:10 92:24   119:16 120:8   54:1 134:13   135:14.16   107:12,13.13   127:15 128:1   107:12,13.13   127:15 128:1   129:20 130:10   23:15 28:3.9   111:31 12:13   133:16 139:22   38:20 41:24   43:10,11.18   43:10,11.18   43:10,11.18   47:18 55:3   47:18 55:3   47:18 55:3   136:12,14   130:24   13:12,14   103:9   136:6.8   66:17 74:11   13:24   13:23 42:1,18   13:23 42:1,18   13:23 42:1,18   13:23 42:1,18   11:12   13:23 42:1,18   42:22 62:23   11:12   13:23 42:1,18   11:12   13:23 42:1,18   11:15   100:15 103:19   100:10 123:11   100:10 123:11   100:10 123:11   100:24 142:6   100:14   100:10 13:10 123:11   100:24 142:6   13:10 13:24   14:5   13:10 13:14   14:5   100:15 13:10   13:11   100:24 142:6   13:13:14   100:14   13:10   13:10 13:11   100:24 142:6   13:13:14   100:14   13:10   13:10   13:11   100:24 142:6   13:13:10   13:10   13:11   100:24 142:6   13:13:10   13:10   13:11   100:24 142:6   13:13:10   13:10   13:11   100:24 142:6   13:10   13:10   13:11   100:24 142:6   13:10   13:10   13:11   100:24 142:6   13:10   13:10   13:11   100:24 142:6   13:10   13:10   13:11   100:24 142:6   13:10   13:10   13:10   13:10   13:10   13:11   100:24 142:6   13:10   13:1	· ·					
195:11 101:14   121:19 124:8   127:15 128:1   107:24 110:11   129:20 130:10   23:15 28:3.9   1114:10.11   129:20 130:10   23:15 28:3.9   114:10.11   129:20 130:10   23:15 28:3.9   114:10.11   116:9 120:24   7:11,19 8:4,23   47:18 55:3						
107:12,13,13						
107:24   110:11   129:20   130:10   23:15 28:3,9   111:31 12:13   133:16 139:22   38:20 41:24   43:10,11.18   47:11,19 8:4,23   47:18 55:3   122:1 125:1   49:16 52:4   66:17 74:11   109:6   118:20						
111:13 112:13   133:16 139:22   38:20 41:24   43:10,11,18   116:9 120:24   47:18 55:3   49:16 52:4   47:18 55:3   49:16 52:4   47:18 55:3   49:16 52:4   47:18 55:3   49:16 52:4   47:18 55:3   49:16 52:4   47:18 55:3   49:16 52:4   47:18 55:3   49:19 50:19 129:1 130:24   76:11 83:20   91:6   133:10 139:23   83:22   43:7 57:8,14   58:23 73:10   111:16   13:23 42:1,18   42:22 62:23   111:16   139:8   48:24 49:22   48:24						1
114:4.10.11	•	į				
1169 120:24   7:11,19 8:4,23   47:18 55:3   66:17 74:11   109:6   109:6   109:6   139:13   131:12,14   103:9   91:6   138:10 139:23   138:10 139:23   138:10 139:23   111:10   13:23 42:1,18   58:23 73:10   111:10   13:23 42:1,18   58:23 73:10   111:16   13:23 42:1,18   58:23 73:10   111:16   13:23 42:1,18   58:23 73:10   111:16   13:23 42:1,18   58:23 73:10   111:16   13:23 42:1,18   58:23 73:10   111:16   13:23 42:1,18   58:23 73:10   111:16   13:23 42:1,18   58:23 73:10   111:16   13:23 42:1,18   58:23 73:10   111:16   13:23 42:1,18   58:23 73:10   111:16   13:23 42:1,18   58:23 73:10   111:16   13:23 42:1,18   14:13   14:15 120:17   12:19 132:5   13:23 13:10   100:5 103:19   84:6 95:21   100:5 103:19   84:6 95:21   100:9 106:23   66:19 81:13   100:9 106:23   66:19 81:13   100:9 106:23   100:19 106:23   100:19 106:23   100:19 106:23   100:19 106:23   100:19 106:23   100:19 106:23   100:19 106:23   100:19 106:23   100:19 106:23   100:19 106:23   100:19 106:23   100:19 106:23   100:19 106:24 142:6   100:10 100:10   100:10	1		1	2		
122:1 125:1	114:4,10,11	general 3:11	43:10,11,18			independently
12818.20	116:9 120:24	7:11,19 8:4,23	47:18 55:3	high-priority	imagine 30:18	99:4
131:12,14   103:9   91:6   103:9   91:6   103:9   136:08   138:10 139:23   83:22   83:22   111:12   13:23 42:1,18   132:3 42:1,18   111:16   139:8   48:24 49:22   100:5 103:19   100:9 106:23   100:9 106:23   100:9 106:23   100:11   100:9 106:23   100:11   100:11   100:11   100:11   100:11   100:12:11   100:12:11   100:12:11   100:12:11   100:12:11   100:12:11   100:12:11   100:12:11   100:12:11   100:12:11   100:12:11   100:12:11   100:12:11   100:12:11   100:13:10   123:11   100:12:12   100:13:10   123:11   100:12 142:6   100:13:10   123:11   100:12 142:6   100:13:10   123:11   100:12 142:6   100:13:10   123:11   100:12 142:6   100:13:10   123:11   100:15   137:10	122:1 125:1	49:16 52:4	66:17 74:11	109:6	immediate 39:7	Indiana 11:1
131:12,14   103:9   91:6   103:9   91:6   103:9   136:08   138:10 139:23   83:22   83:22   111:12   13:23 42:1,18   132:3 42:1,18   111:16   139:8   48:24 49:22   100:5 103:19   100:9 106:23   100:9 106:23   100:9 106:23   100:11   100:9 106:23   100:11   100:11   100:11   100:11   100:11   100:12:11   100:12:11   100:12:11   100:12:11   100:12:11   100:12:11   100:12:11   100:12:11   100:12:11   100:12:11   100:12:11   100:12:11   100:12:11   100:12:11   100:13:10   123:11   100:12:12   100:13:10   123:11   100:12 142:6   100:13:10   123:11   100:12 142:6   100:13:10   123:11   100:12 142:6   100:13:10   123:11   100:12 142:6   100:13:10   123:11   100:15   137:10	128:8,20	61:7 69:11	75:13 76:2	high-volume	impact 69:23	Indianapolis
131:12,14		Į.				
136:6.8   138:10 139:23   83:22   60   1211   58:23   73:10   111:12   13:23   42:1,18   62:10,16   63:10   13:23   42:1,18   62:10,16   63:10   13:23   42:1,18   64:24   43:5,6   45:9   68:12,16   63:10   10:11   60:11   13:23   42:1,18   64:24   43:2,6   64:4   63:10   63:10   10:21   60:10   63:13   64:10   63:10   63:10   10:21   60:10   63:13   64:24   63:10   63:10   63:10   63:13   64:24   63:10   63:10   63:10   63:10   63:13   64:24   63:10   63:10   63:10   63:11   109:24   126: 109:24   126: 109:24   126: 109:24   137:10   1						· .
138:10 139:23   63:22   63:7 57:8,14   58:23 73:10   111:12   13:23 42:1,18   67:0pq 42:4   42:22 62:23   43:5,6 45:9   48:24 49:22   100:5 103:19   48:24 49:22   100:5 103:19   48:24 49:22   100:5 103:19   100:9 106:23   66:19 81:13   100:9 106:23   66:19 81:13   100:11   100:11   100:11   100:11   100:11   100:11   100:12   13:10 123:11   100:24 142:6   44:21 78:17   67:11   100:24 142:6   44:21 78:17   67:11   60:14 16:10   60:14 16:10   100:44 179:19   103:10 123:11   100:24 142:6   44:21 78:17   67:11   60:14 16:10   60:14 16:10   60:14 16:10   60:14 16:10   60:14 16:10   60:14 16:10   60:14 16:10   60:14 16:10   60:14 16:10   60:14 16:10   60:14 16:10   60:14 16:10   60:14 16:10   60:14 16:10   60:14 16:10   60:14 16:10   60:14 16:10   60:14 16:10   60:12   60:12 78:8   60:12 78:10   60:12 78:8   60:12 78:10   60:14 16:10		! _	1 -			
Frustrated   11:11   13:23 42:1,18   13:23 42:1,18   13:23 42:1,18   13:23 42:1,18   13:34 42:1,18   13:34 42:1,18   13:34 42:2 62:23   43:5,6 45:9   63:10,16   101:4   70:10   42:8,20 64:4   101:14   101:14   101:14   101:14   101:14   101:14   101:14   101:14   101:14   101:14   101:14   101:14   101:14   101:14   101:15   101:14						
Til:12						
Frustration   42:22 62:23   43:5,6 45:9   68:12,16   foliable   49:24 49:22   foliable   49:24 123:3   foliable   49:24 123:3   foliable   49:24 123:3   foliable   49:24 123:3   foliable   49:24 67:7   foliable   49:24 67:3   foliable   49:24 67:3   foliable   49:24 67:3   foliable   49:24 foliable			1	1		
Table						
Fugitive 44:3.7   getting 84:15   52:10,15 68:2   101:4   55:1 57:7   113:12 122:2   110:1 14:5   100:5 103:19   84:6 95:21   96:1 97:10,16   100:9 106:23   66:19 81:13   97:19   100:9 106:23   66:19 81:13   97:19   100:11   given 49:21   given 49:21   funding 99:15   53:24 67:7   guidance 12:18   43:1 64:20   103:10 123:11   109:24 142:6   future 123:4   144:5   F-A-S-T 36:15   gives 101:5   137:10   giving 84:14   133:10   giving 84:14   94:12,20   29:18 30:3   34:7 50:8   93:1   102:19 103:6   Gauther 46:10   Gauther 46:10   Gauther 46:3   115:10,10   gas 68:20   Harmson 65:20   Harmson 66:21 21:5   Harmson 66:21	:					
Full   114:5   100:5   103:19   120:12   96:1   97:10,16   77:13   import 63:1   124:17   125:7   100:9   106:23   66:19   81:13   66:19   82:3   139:10   102:11   given   49:21   103:10   123:11   109:24   142:6   103:10   123:11   109:24   142:6   123:4   144:5   137:10   137:10   137:10   137:10   139:13   139:10   139:13   139:10   139:13   139:10   139:13   100:14   100:1						
function 61:8         120:12         96:1 97:10,16         7:13         import 63:1         124:17 125:7           fund 99:19         66:19 81:13         gues 56:17 58:3         97:19         home 51:3         important         126:16           fundamental         82:3 139:10         66:19 81:13         gues 31:8         64:24 67:17         importantly         27:3 55:9 98:4           102:11         given 49:21         80:7         bomes 24:5,9         15:1 103:18         125:22 individuals           further 83:12         92:9 94:19         15:2 27:7         65:20 66:20         64:6         78:15           future 123:4         144:5         gives 101:5         80:24         hook 126:6         10:1         industrial i						
Fund   99:19   100:9   106:23   66:19   81:13   82:3   139:10   102:11   given   49:21   80:7   guidance   12:18   103:10   123:41   109:24   142:6   137:10   137:10   137:10   137:10   137:10   139:9   34:7   50:8   139:9   34:7   50:8   139:9   34:7   50:8   139:9   34:7   50:8   139:9   34:7   50:8   139:9   34:7   50:8   139:9   34:17   50:10   103:10   1		! 100:5 103:19		Holdings 7·17	importer 55.15	
100:9 106:23   66:19 81:13   guess 31:8   64:24 67:17   fundamental   82:3 139:10   67:10 78:4   83:10   importantly   27:3 55:9 98:4   102:11   given 49:21   guidance 12:18   43:1 64:20   43:1 64:20   65:20 66:20   64:6   imported 63:5   individuals   78:15   industrial   103:10 123:11   109:24 142:6   44:21 78:17   67:11   industrial   60:14 116:10   industrial   103:10 123:11   109:24 142:6   guess 31:8   64:24 67:17   83:10   importantly   27:3 55:9 98:4   15:1 103:18   industrial   15:22 27:7   65:20 66:20   64:6   imported 63:5   individuals   78:15   industrial   103:10   indust			84:6 95:21	I Trotome		i ·
100:9 106:23   66:19 81:13   guess 31:8   64:24 67:17   fundamental   82:3 139:10   67:10 78:4   83:10   importantly   27:3 55:9 98:4	runction 61:8	120:12	96:1 97:10,16			i ·
fundamental         82:3 139:10         67:10 78:4         83:10         importantly         27:3 55:9 98:4           funding         99:15         53:24 67:7         guidance         12:18         43:1 64:20         importantly         15:1 103:18         125:22           further         83:12         92:9 94:19         15:2 27:7         65:20 66:20         64:6         78:15           future         123:4         144:5         80:24         hook         126:6         100:11         industrial           G         giving         84:14         80:24         hook         126:6         hook         126:6           G         giving         84:14         H         10:10         inaccuracies         75:4           Ganster         G0:10         Global         61:1,2         Bandwritten         50:24 51:12         56:20         75:4           94:12,20         29:18 30:3         34:7 50:8         handwritten         54:15         Howerd         33:21 34:1,3         18:8 23:22           gasoline         37:24         59:17 98:15         harm         55:2         Howell         60:2,4         human         11:24         33:21 34:1,3         18:8 23:22           Gauthier's         46:11         go		120:12	96:1 97:10,16	7:13	import 63:1	124:17 125:7
102:11	<b>fund</b> 99:19	120:12 give 56:17 58:3	96:1 97:10,16 97:19	7:13 home 51:3	import 63:1 important	124:17 125:7 126:16
funding         99:15         53:24 67:7 yell         guidance         12:18 list         43:1 64:20 list         imported         63:5 lindividuals         78:15 lindustrial           103:10 123:11         109:24 142:6 list         44:21 78:17 list         65:20 66:20 list         64:6 list         78:15 list           F-A-S-T 36:15         gives 101:5 list         80:24 list         hook 126:6 list         110:1 list         60:14 116:10 list           G         giving         84:14 list         H         110:5,10 list         inaccuracy list         inexpensive list           Ganster         60:10 list         Global 61:1,2 list         63:7 4:1 list         housing 16:8,9 list         56:18 57:15 list         15:7 list           94:12,20 list         29:18 30:3 list         34:7 50:8 list         happen 65:20 list         happen 65:20 list         howell 60:2,4 list         human 11:24 list         43:9,10 list         inform 69:6 list           93:1 list         102:19 103:6 list         HARRISON         63:7 105:23 list         34:14,14,24 list         55:18,20 list         55:18,20 list         114:14 list         95:37,11,12 list         66:12 78:8 list         114:14 list         95:22,22,23 list         114:11,19,22 list         114:24 list         133:23 137:18 list         114:24 list         138:10 list         114:24 list         <	<b>fund</b> 99:19 100:9 106:23	120:12 give 56:17 58:3 66:19 81:13	96:1 97:10,16 97:19 guess 31:8	7:13 home 51:3 64:24 67:17	import 63:1 important 110:10	124:17 125:7 126:16 indicates 26:24
further         83:12         92:9 94:19         15:2 27:7         65:20 66:20         64:6         78:15           103:10 123:11         109:24 142:6         44:21 78:17         67:11         importing         industrial           F-A-S-T 36:15         gives 101:5         gunning 124:3         hook 126:6         house 48:13         56:20         75:4           G         giving 84:14         H         H 3:7 4:1         house 48:13         56:20         75:4           Ganster 60:10         Global 61:1,2         H 3:7 4:1         half 72:7         housing 16:8,9         56:18 57:15         15:7           Gary 53:18         go 5:16 24:21         half 72:7         howard 3:22         78:4 79:4         Inc 7:12,13         infer 125:2           94:12,20         34:7 50:8         happen 65:20         harm 55:2         Howell 60:2,4         howell 60:2,4         howell 60:2,4         howard 3:23         33:21 34:1,3         18:8 23:22           93:1         102:19 103:6         HARRISON         63:7 105:23         34:14,14,24         55:18,20           Gauthier 46:10         105:21 113:21         having 5:10         H-I-G-H-T         95:22,22,23         114:11,19,22           46:11         goal 100:14         44:18 102:19         29:23         132:12,18 </td <td>fund 99:19 100:9 106:23 fundamental</td> <td>120:12 give 56:17 58:3 66:19 81:13 82:3 139:10</td> <td>96:1 97:10,16 97:19 guess 31:8 67:10 78:4</td> <td>7:13 home 51:3 64:24 67:17 83:10</td> <td>import 63:1 important 110:10 importantly</td> <td>124:17 125:7 126:16 indicates 26:24 27:3 55:9 98:4</td>	fund 99:19 100:9 106:23 fundamental	120:12 give 56:17 58:3 66:19 81:13 82:3 139:10	96:1 97:10,16 97:19 guess 31:8 67:10 78:4	7:13 home 51:3 64:24 67:17 83:10	import 63:1 important 110:10 importantly	124:17 125:7 126:16 indicates 26:24 27:3 55:9 98:4
103:10 123:11   109:24 142:6   44:21 78:17   80:24   hook 126:6   fourse 123:4   future 123:4	fund 99:19 100:9 106:23 fundamental 102:11	120:12 give 56:17 58:3 66:19 81:13 82:3 139:10 given 49:21	96:1 97:10,16 97:19 guess 31:8 67:10 78:4 80:7	7:13 home 51:3 64:24 67:17 83:10 homes 24:5,9	import 63:1 important 110:10 importantly 15:1 103:18	124:17 125:7 126:16 indicates 26:24 27:3 55:9 98:4 125:22
future 123:4         144:5         80:24         hook 126:6         110:1         60:14 116:10           F-A-S-T 36:15         gives 101:5         137:10         house 48:13         50:24 51:12         56:20         75:4           G 144:9         glad 72:23         H 3:7 4:1         holosing 16:8,9         housing 16:8,9         56:18 57:15         15:7           Gary 53:18         go 5:16 24:21         half 72:7         half 72:7         howard 3:22         58:13         infer 125:2           94:12,20         29:18 30:3         54:15         80:15,17,23         43:9,10         inform 69:6           gasoline 37:24         59:17 98:15         happen 65:20         harm 55:2         HARRISON         63:7 105:23         34:14,14,24         55:18,20           Gauthier 46:10         105:21 113:21         having 5:10         H-I-G-H-T         95:3,7,11,12         66:12 78:8           Gauthier's 46:9         102:20         Hawkins 46:2,4         Hawkins 46:2,4         Head 40:15,18         I         I         138:10         89:3 117:19           94:16,22         41:6,22         41:22         health 3:20         identification         include 9:10         initiated 27:19           109:8 115:8,9	fund 99:19 100:9 106:23 fundamental 102:11 funding 99:15	120:12 give 56:17 58:3 66:19 81:13 82:3 139:10 given 49:21 53:24 67:7	96:1 97:10,16 97:19 guess 31:8 67:10 78:4 80:7 guidance 12:18	7:13 home 51:3 64:24 67:17 83:10 homes 24:5,9 43:1 64:20	import 63:1 important 110:10 importantly 15:1 103:18 imported 63:5	124:17 125:7 126:16 indicates 26:24 27:3 55:9 98:4 125:22 individuals
F-A-S-T 36:15 gives 101:5 137:10 giving 84:14 H 105:5,10 housing 16:8,9 Ganster 60:10 Global 61:1,2 half 72:7 handwritten 94:12,20 29:18 30:3 34:7 50:8 gasoline 37:24 93:1 102:19 103:6 Gauther 46:10 Goberni 41:21 hawing 5:10 44:18 102:19 Goberni 41:21 head 40:15,18 head 40:15,18 health 3:20 indentification include 9:10 initiated 27:19 initiative	fund 99:19 100:9 106:23 fundamental 102:11 funding 99:15 further 83:12	120:12 give 56:17 58:3 66:19 81:13 82:3 139:10 given 49:21 53:24 67:7 92:9 94:19	96:1 97:10,16 97:19 guess 31:8 67:10 78:4 80:7 guidance 12:18 15:2 27:7	7:13 home 51:3 64:24 67:17 83:10 homes 24:5,9 43:1 64:20 65:20 66:20	import 63:1 important 110:10 importantly 15:1 103:18 imported 63:5 64:6	124:17 125:7 126:16 indicates 26:24 27:3 55:9 98:4 125:22 individuals 78:15
G   giving 84:14   H   3:7 4:1   half 72:7   handwritten   54:15   mosel 60:10   Gary 53:18   go 5:16 24:21   half 72:7   handwritten   54:15   mosel 60:24   mosel 60:24	fund 99:19 100:9 106:23 fundamental 102:11 funding 99:15 further 83:12 103:10 123:11	120:12 give 56:17 58:3 66:19 81:13 82:3 139:10 given 49:21 53:24 67:7 92:9 94:19 109:24 142:6	96:1 97:10,16 97:19 guess 31:8 67:10 78:4 80:7 guidance 12:18 15:2 27:7 44:21 78:17	7:13 home 51:3 64:24 67:17 83:10 homes 24:5,9 43:1 64:20 65:20 66:20 67:11	import 63:1 important 110:10 importantly 15:1 103:18 imported 63:5 64:6 importing	124:17 125:7 126:16 indicates 26:24 27:3 55:9 98:4 125:22 individuals 78:15 industrial
G 144:9 glad 72:23	fund 99:19 100:9 106:23 fundamental 102:11 funding 99:15 further 83:12 103:10 123:11 future 123:4	120:12 give 56:17 58:3 66:19 81:13 82:3 139:10 given 49:21 53:24 67:7 92:9 94:19 109:24 142:6 144:5	96:1 97:10,16 97:19 guess 31:8 67:10 78:4 80:7 guidance 12:18 15:2 27:7 44:21 78:17 80:24	7:13 home 51:3 64:24 67:17 83:10 homes 24:5,9 43:1 64:20 65:20 66:20 67:11 hook 126:6	import 63:1 important 110:10 importantly 15:1 103:18 imported 63:5 64:6 importing 110:1	124:17 125:7 126:16 indicates 26:24 27:3 55:9 98:4 125:22 individuals 78:15 industrial 60:14 116:10
G 144:9 Global 61:1,2 Global 61:1,2 part 53:18 go 5:16 24:21 pandwritten 94:12,20 29:18 30:3 pasoline 37:24 93:1 loc:19 103:6 Gauther 46:10 Gauthier 46:3 46:11 Gauthier's 46:9 gave 58:20 75:7 94:16,22 109:8 115:8,9 goes 83:15 locs of sing 16:8,9 housing 16:2,4	fund 99:19 100:9 106:23 fundamental 102:11 funding 99:15 further 83:12 103:10 123:11 future 123:4	120:12 give 56:17 58:3 66:19 81:13 82:3 139:10 given 49:21 53:24 67:7 92:9 94:19 109:24 142:6 144:5 gives 101:5	96:1 97:10,16 97:19 guess 31:8 67:10 78:4 80:7 guidance 12:18 15:2 27:7 44:21 78:17 80:24	7:13 home 51:3 64:24 67:17 83:10 homes 24:5,9 43:1 64:20 65:20 66:20 67:11 hook 126:6 house 48:13	import 63:1 important 110:10 importantly 15:1 103:18 imported 63:5 64:6 importing 110:1 inaccuracies	124:17 125:7 126:16 indicates 26:24 27:3 55:9 98:4 125:22 individuals 78:15 industrial 60:14 116:10 industries 75:1
Ganster 60:10         Global 61:1,2 go 5:16 24:21         half 72:7 handwritten         Howard 3:22 78:4 79:4         58:13 Inc 7:12,13 inference 125:4 inference 1	fund 99:19 100:9 106:23 fundamental 102:11 funding 99:15 further 83:12 103:10 123:11 future 123:4 F-A-S-T 36:15	120:12 give 56:17 58:3 66:19 81:13 82:3 139:10 given 49:21 53:24 67:7 92:9 94:19 109:24 142:6 144:5 gives 101:5 137:10	96:1 97:10,16 97:19 guess 31:8 67:10 78:4 80:7 guidance 12:18 15:2 27:7 44:21 78:17 80:24 gunning 124:3	7:13 home 51:3 64:24 67:17 83:10 homes 24:5,9 43:1 64:20 65:20 66:20 67:11 hook 126:6 house 48:13 50:24 51:12	import 63:1 important 110:10 importantly 15:1 103:18 imported 63:5 64:6 importing 110:1 inaccuracies 56:20	124:17 125:7 126:16 indicates 26:24 27:3 55:9 98:4 125:22 individuals 78:15 industrial 60:14 116:10 industries 75:1 75:4
Gary 53:18         go 5:16 24:21         handwritten 54:15         78:4 79:4 80:15,17,23         Inc 7:12,13         inference 125:4 inform 69:6 inform 69:6 inform 69:6 inform 69:6 information shappen 65:20 harm 55:2           93:1         102:19 103:6 102:19 103:6 Gauther 46:10 Gauthier 46:3 46:11         105:21 113:21 113:21 115:10,10 goal 100:14 Gauthier's 46:9 gave 58:20 75:7 94:16,22 109:8 115:8,9         102:20 Goberni 41:21 health 3:20 109:8 115:8,9         Hawkins 46:2,4 health 3:20 109:8 115:8,9         Hawkins 46:15 11:24 16:15         Inc 7:12,13 43:9,10 inform 69:6 inform 69:6 information 33:6,19 information 43:20 information 43:21 health 3:20 information 43:21 informatio	fund 99:19 100:9 106:23 fundamental 102:11 funding 99:15 further 83:12 103:10 123:11 future 123:4 F-A-S-T 36:15	120:12 give 56:17 58:3 66:19 81:13 82:3 139:10 given 49:21 53:24 67:7 92:9 94:19 109:24 142:6 144:5 gives 101:5 137:10 giving 84:14	96:1 97:10,16 97:19 guess 31:8 67:10 78:4 80:7 guidance 12:18 15:2 27:7 44:21 78:17 80:24 gunning 124:3	7:13 home 51:3 64:24 67:17 83:10 homes 24:5,9 43:1 64:20 65:20 66:20 67:11 hook 126:6 house 48:13 50:24 51:12 110:5,10	import 63:1 important 110:10 importantly 15:1 103:18 imported 63:5 64:6 importing 110:1 inaccuracies 56:20 inaccuracy	124:17 125:7 126:16 indicates 26:24 27:3 55:9 98:4 125:22 individuals 78:15 industrial 60:14 116:10 industries 75:1 75:4 inexpensive
94:12,20 29:18 30:3 34:7 50:8 happen 65:20 harm 55:2 human 11:24 55:18,20 63:7 105:23 113:21 115:10,10 goal 100:14 Gauthier's 46:9 gave 58:20 75:7 94:16,22 109:8 115:8,9 goes 83:15	fund 99:19 100:9 106:23 fundamental 102:11 funding 99:15 further 83:12 103:10 123:11 future 123:4 F-A-S-T 36:15	120:12 give 56:17 58:3 66:19 81:13 82:3 139:10 given 49:21 53:24 67:7 92:9 94:19 109:24 142:6 144:5 gives 101:5 137:10 giving 84:14 glad 72:23	96:1 97:10,16 97:19 guess 31:8 67:10 78:4 80:7 guidance 12:18 15:2 27:7 44:21 78:17 80:24 gunning 124:3 H H 3:7 4:1	7:13 home 51:3 64:24 67:17 83:10 homes 24:5,9 43:1 64:20 65:20 66:20 67:11 hook 126:6 house 48:13 50:24 51:12 110:5,10 housing 16:8,9	import 63:1 important 110:10 importantly 15:1 103:18 imported 63:5 64:6 importing 110:1 inaccuracies 56:20 inaccuracy 56:18 57:15	124:17 125:7 126:16 indicates 26:24 27:3 55:9 98:4 125:22 individuals 78:15 industrial 60:14 116:10 industries 75:1 75:4 inexpensive 15:7
94:12,20	fund 99:19 100:9 106:23 fundamental 102:11 funding 99:15 further 83:12 103:10 123:11 future 123:4 F-A-S-T 36:15 G G 144:9 Ganster 60:10	120:12 give 56:17 58:3 66:19 81:13 82:3 139:10 given 49:21 53:24 67:7 92:9 94:19 109:24 142:6 144:5 gives 101:5 137:10 giving 84:14 glad 72:23 Global 61:1,2	96:1 97:10,16 97:19 guess 31:8 67:10 78:4 80:7 guidance 12:18 15:2 27:7 44:21 78:17 80:24 gunning 124:3 H H 3:7 4:1 half 72:7	7:13 home 51:3 64:24 67:17 83:10 homes 24:5,9 43:1 64:20 65:20 66:20 67:11 hook 126:6 house 48:13 50:24 51:12 110:5,10 housing 16:8,9 Howard 3:22	import 63:1 important 110:10 importantly 15:1 103:18 imported 63:5 64:6 importing 110:1 inaccuracies 56:20 inaccuracy 56:18 57:15 58:13	124:17 125:7 126:16 indicates 26:24 27:3 55:9 98:4 125:22 individuals 78:15 industrial 60:14 116:10 industries 75:1 75:4 inexpensive 15:7 infer 125:2
113:9       34:7 50:8       happen 65:20       Howell 60:2,4       inches 33:6,19       information 18:8 23:22         93:1       102:19 103:6       HARRISON 63:7 105:23       34:14,14,24       55:18,20         Gauther 46:10       105:21 113:21       1:13 2:12       14:14       95:3,7,11,12       66:12 78:8         Gauthier 46:3       115:10,10       having 5:10       44:18 102:19       95:22,22,23       114:11,19,22         46:11       goal 100:14       44:18 102:19       29:23       132:12,18       114:24         Gauthier's 46:9       102:20       Hawkins 46:2,4       133:23 137:18       138:10       18:8 23:22         HARRISON       1:13 2:12       114:14       95:3,7,11,12       66:12 78:8         114:14       133:23 137:18       133:23 137:18       133:23 137:18       133:23 137:18         109:8 115:8,9       41:22       health 3:20       identification       include 9:10       initiated 27:19         109:8 115:8,9       11:24 16:15       6:21 21:5       57:22       initiative	fund 99:19 100:9 106:23 fundamental 102:11 funding 99:15 further 83:12 103:10 123:11 future 123:4 F-A-S-T 36:15 G G 144:9 Ganster 60:10	120:12 give 56:17 58:3 66:19 81:13 82:3 139:10 given 49:21 53:24 67:7 92:9 94:19 109:24 142:6 144:5 gives 101:5 137:10 giving 84:14 glad 72:23 Global 61:1,2 go 5:16 24:21	96:1 97:10,16 97:19 guess 31:8 67:10 78:4 80:7 guidance 12:18 15:2 27:7 44:21 78:17 80:24 gunning 124:3 H H 3:7 4:1 half 72:7	7:13 home 51:3 64:24 67:17 83:10 homes 24:5,9 43:1 64:20 65:20 66:20 67:11 hook 126:6 house 48:13 50:24 51:12 110:5,10 housing 16:8,9 Howard 3:22 78:4 79:4	import 63:1 important 110:10 importantly 15:1 103:18 imported 63:5 64:6 importing 110:1 inaccuracies 56:20 inaccuracy 56:18 57:15 58:13 Inc 7:12,13	124:17 125:7 126:16 indicates 26:24 27:3 55:9 98:4 125:22 individuals 78:15 industrial 60:14 116:10 industries 75:1 75:4 inexpensive 15:7 infer 125:2 inference 125:4
gasoline 37:24       59:17 98:15       harm 55:2       human 11:24       33:21 34:1,3       18:8 23:22         93:1       102:19 103:6       HARRISON       63:7 105:23       34:14,14,24       55:18,20         Gauther 46:10       105:21 113:21       1:13 2:12       114:14       95:3,7,11,12       66:12 78:8         Gauthier 46:3       115:10,10       having 5:10       H-I-G-H-T       95:22,22,23       114:11,19,22         46:11       goal 100:14       44:18 102:19       29:23       132:12,18       114:24         Gauthier's 46:9       102:20       Hawkins 46:2,4       133:23 137:18       138:10       138:10         94:16,22       41:22       health 3:20       identification       include 9:10       initiated 27:19         109:8 115:8,9       goes 83:15       11:24 16:15       6:21 21:5       57:22       initiative	fund 99:19 100:9 106:23 fundamental 102:11 funding 99:15 further 83:12 103:10 123:11 future 123:4 F-A-S-T 36:15 G G 144:9 Ganster 60:10 Gary 53:18	120:12 give 56:17 58:3 66:19 81:13 82:3 139:10 given 49:21 53:24 67:7 92:9 94:19 109:24 142:6 144:5 gives 101:5 137:10 giving 84:14 glad 72:23 Global 61:1,2 29:18 30:3	96:1 97:10,16 97:19 guess 31:8 67:10 78:4 80:7 guidance 12:18 15:2 27:7 44:21 78:17 80:24 gunning 124:3 H H 3:7 4:1 half 72:7 bandwritten	7:13 home 51:3 64:24 67:17 83:10 homes 24:5,9 43:1 64:20 65:20 66:20 67:11 hook 126:6 house 48:13 50:24 51:12 110:5,10 housing 16:8,9 Howard 3:22 78:4 79:4 80:15,17,23	import 63:1 important 110:10 importantly 15:1 103:18 imported 63:5 64:6 importing 110:1 inaccuracies 56:20 inaccuracy 56:18 57:15 58:13 Inc 7:12,13	124:17 125:7 126:16 indicates 26:24 27:3 55:9 98:4 125:22 individuals 78:15 industrial 60:14 116:10 industries 75:1 75:4 inexpensive 15:7 infer 125:2 inference 125:4
93:1 102:19 103:6 105:21 113:21 1:13 2:12 14:14 95:3,7,11,12 66:12 78:8 114:14 95:2,22,23 114:11,19,22 14:18 102:19 102:20 Hawkins 46:2,4 gave 58:20 75:7 Goberni 41:21 head 40:15,18 109:8 115:8,9 goes 83:15 11:24 16:15 6:21 21:5 57:22 initiative 55:18,20 66:12 78:8 114:14,14 95:3,7,11,12 66:12 78:8 114:11,19,22 114:14 95:2,7,11,12 66:12 78:8 114:11,19,22 114:14 19,24	fund 99:19 100:9 106:23 fundamental 102:11 funding 99:15 further 83:12 103:10 123:11 future 123:4 F-A-S-T 36:15  G G 144:9 Ganster 60:10 Gary 53:18 94:12,20 113:9	120:12 give 56:17 58:3 66:19 81:13 82:3 139:10 given 49:21 53:24 67:7 92:9 94:19 109:24 142:6 144:5 gives 101:5 137:10 giving 84:14 glad 72:23 Global 61:1,2 29:18 30:3 34:7 50:8	96:1 97:10,16 97:19 guess 31:8 67:10 78:4 80:7 guidance 12:18 15:2 27:7 44:21 78:17 80:24 gunning 124:3 H H 3:7 4:1 half 72:7 bandwritten 54:15	7:13 home 51:3 64:24 67:17 83:10 homes 24:5,9 43:1 64:20 65:20 66:20 67:11 hook 126:6 house 48:13 50:24 51:12 110:5,10 housing 16:8,9 Howard 3:22 78:4 79:4 80:15,17,23	import 63:1 important 110:10 importantly 15:1 103:18 imported 63:5 64:6 importing 110:1 inaccuracies 56:20 inaccuracy 56:18 57:15 58:13 Inc 7:12,13 43:9,10	124:17 125:7 126:16 indicates 26:24 27:3 55:9 98:4 125:22 individuals 78:15 industrial 60:14 116:10 industries 75:1 75:4 inexpensive 15:7 infer 125:2 inference 125:4 inform 69:6
Gauther 46:10       105:21 113:21       1:13 2:12       114:14       95:3,7,11,12       66:12 78:8         Gauthier 46:3       115:10,10       having 5:10       H-I-G-H-T       95:22,22,23       114:11,19,22         46:11       goal 100:14       44:18 102:19       29:23       132:12,18       114:24         Gauthier's 46:9       102:20       Hawkins 46:2,4       133:23 137:18       138:10       informed 48:8         gave 58:20 75:7       Goberni 41:21       head 40:15,18       I       138:10       89:3 117:19         94:16,22       41:22       health 3:20       identification       include 9:10       initiated 27:19         109:8 115:8,9       goes 83:15       11:24 16:15       6:21 21:5       57:22       initiative	fund 99:19 100:9 106:23 fundamental 102:11 funding 99:15 further 83:12 103:10 123:11 future 123:4 F-A-S-T 36:15  G G 144:9 Ganster 60:10 Gary 53:18 94:12,20 113:9	120:12 give 56:17 58:3 66:19 81:13 82:3 139:10 given 49:21 53:24 67:7 92:9 94:19 109:24 142:6 144:5 gives 101:5 137:10 giving 84:14 glad 72:23 Global 61:1,2 29:18 30:3 34:7 50:8	96:1 97:10,16 97:19 guess 31:8 67:10 78:4 80:7 guidance 12:18 15:2 27:7 44:21 78:17 80:24 gunning 124:3 H H 3:7 4:1 half 72:7 handwritten 54:15 happen 65:20	7:13 home 51:3 64:24 67:17 83:10 homes 24:5,9 43:1 64:20 65:20 66:20 67:11 hook 126:6 house 48:13 50:24 51:12 110:5,10 housing 16:8,9 Howard 3:22 78:4 79:4 80:15,17,23 Howell 60:2,4	import 63:1 important 110:10 importantly 15:1 103:18 imported 63:5 64:6 importing 110:1 inaccuracies 56:20 inaccuracy 56:18 57:15 58:13 Inc 7:12,13 43:9,10 inches 33:6,19	124:17 125:7 126:16 indicates 26:24 27:3 55:9 98:4 125:22 individuals 78:15 industrial 60:14 116:10 industries 75:1 75:4 inexpensive 15:7 infer 125:2 inference 125:4 inform 69:6 information
Gauthier 46:3       115:10,10       having 5:10       H-I-G-H-T       95:22,22,23       114:11,19,22         46:11       goal 100:14       44:18 102:19       29:23       132:12,18       114:24         Gauthier's 46:9       102:20       Hawkins 46:2,4       133:23 137:18       informed 48:8         gave 58:20 75:7       Goberni 41:21       head 40:15,18       I       138:10       89:3 117:19         94:16,22       41:22       health 3:20       identification       include 9:10       initiated 27:19         109:8 115:8,9       goes 83:15       11:24 16:15       6:21 21:5       57:22       initiative	fund 99:19 100:9 106:23 fundamental 102:11 funding 99:15 further 83:12 103:10 123:11 future 123:4 F-A-S-T 36:15  G G 144:9 Ganster 60:10 Gary 53:18 94:12,20 113:9 gasoline 37:24	120:12 give 56:17 58:3 66:19 81:13 82:3 139:10 given 49:21 53:24 67:7 92:9 94:19 109:24 142:6 144:5 gives 101:5 137:10 giving 84:14 glad 72:23 Global 61:1,2 29:18 30:3 34:7 50:8 59:17 98:15	96:1 97:10,16 97:19 guess 31:8 67:10 78:4 80:7 guidance 12:18 15:2 27:7 44:21 78:17 80:24 gunning 124:3 H H 3:7 4:1 half 72:7 handwritten 54:15 happen 65:20 harm 55:2	7:13 home 51:3 64:24 67:17 83:10 homes 24:5,9 43:1 64:20 65:20 66:20 67:11 hook 126:6 house 48:13 50:24 51:12 110:5,10 housing 16:8,9 Howard 3:22 78:4 79:4 80:15,17,23 Howell 60:2,4 human 11:24	import 63:1 important 110:10 importantly 15:1 103:18 imported 63:5 64:6 importing 110:1 inaccuracies 56:20 inaccuracy 56:18 57:15 58:13 Inc 7:12,13 43:9,10 inches 33:6,19 33:21 34:1,3	124:17 125:7 126:16 indicates 26:24 27:3 55:9 98:4 125:22 individuals 78:15 industrial 60:14 116:10 industries 75:1 75:4 inexpensive 15:7 infer 125:2 inference 125:4 inform 69:6 information 18:8 23:22
46:11	fund 99:19 100:9 106:23 fundamental 102:11 funding 99:15 further 83:12 103:10 123:11 future 123:4 F-A-S-T 36:15  G G 144:9 Ganster 60:10 Gary 53:18 94:12,20 113:9 gasoline 37:24 93:1	120:12 give 56:17 58:3 66:19 81:13 82:3 139:10 given 49:21 53:24 67:7 92:9 94:19 109:24 142:6 144:5 gives 101:5 137:10 giving 84:14 glad 72:23 Global 61:1,2 29:18 30:3 34:7 50:8 59:17 98:15 102:19 103:6	96:1 97:10,16 97:19 guess 31:8 67:10 78:4 80:7 guidance 12:18 15:2 27:7 44:21 78:17 80:24 gunning 124:3 H H 3:7 4:1 half 72:7 handwritten 54:15 happen 65:20 harm 55:2 HARRISON	7:13 home 51:3 64:24 67:17 83:10 homes 24:5,9 43:1 64:20 65:20 66:20 67:11 hook 126:6 house 48:13 50:24 51:12 110:5,10 housing 16:8,9 Howard 3:22 78:4 79:4 80:15,17,23 Howell 60:2,4 human 11:24 63:7 105:23	import 63:1 important 110:10 importantly 15:1 103:18 imported 63:5 64:6 importing 110:1 inaccuracies 56:20 inaccuracy 56:18 57:15 58:13 Inc 7:12,13 43:9,10 inches 33:6,19 33:21 34:1,3 34:14,14,24	124:17 125:7 126:16 indicates 26:24 27:3 55:9 98:4 125:22 individuals 78:15 industrial 60:14 116:10 industries 75:1 75:4 inexpensive 15:7 infer 125:2 inference 125:4 inform 69:6 information 18:8 23:22 55:18,20
Gauthier's 46:9 gave 58:20 75:7 Goberni 41:21 109:8 115:8,9       102:20 head 40:15,18 labeled 40:15,1	fund 99:19 100:9 106:23 fundamental 102:11 funding 99:15 further 83:12 103:10 123:11 future 123:4 F-A-S-T 36:15  G G 144:9 Ganster 60:10 Gary 53:18 94:12,20 113:9 gasoline 37:24 93:1 Gauther 46:10	120:12 give 56:17 58:3 66:19 81:13 82:3 139:10 given 49:21 53:24 67:7 92:9 94:19 109:24 142:6 144:5 gives 101:5 137:10 giving 84:14 glad 72:23 Global 61:1,2 go 5:16 24:21 29:18 30:3 34:7 50:8 59:17 98:15 102:19 103:6 105:21 113:21	96:1 97:10,16 97:19 guess 31:8 67:10 78:4 80:7 guidance 12:18 15:2 27:7 44:21 78:17 80:24 gunning 124:3 H H 3:7 4:1 half 72:7 handwritten 54:15 happen 65:20 harm 55:2 HARRISON 1:13 2:12	7:13 home 51:3 64:24 67:17 83:10 homes 24:5,9 43:1 64:20 65:20 66:20 67:11 hook 126:6 house 48:13 50:24 51:12 110:5,10 housing 16:8,9 Howard 3:22 78:4 79:4 80:15,17,23 Howell 60:2,4 human 11:24 63:7 105:23 114:14	import 63:1 important 110:10 importantly 15:1 103:18 imported 63:5 64:6 importing 110:1 inaccuracies 56:20 inaccuracy 56:18 57:15 58:13 Inc 7:12,13 43:9,10 inches 33:6,19 33:21 34:1,3 34:14,14,24 95:3,7,11,12	124:17 125:7 126:16 indicates 26:24 27:3 55:9 98:4 125:22 individuals 78:15 industrial 60:14 116:10 industries 75:1 75:4 inexpensive 15:7 infer 125:2 inference 125:4 inform 69:6 information 18:8 23:22 55:18,20 66:12 78:8
gave 58:20 75:7     Goberni 41:21     head 40:15,18     I     138:10     89:3 117:19       94:16,22     41:22     health 3:20     identification include 9:10     include 9:10     initiated 27:19       109:8 115:8,9     goes 83:15     11:24 16:15     6:21 21:5     57:22     initiative	fund 99:19 100:9 106:23 fundamental 102:11 funding 99:15 further 83:12 103:10 123:11 future 123:4 F-A-S-T 36:15  G G 144:9 Ganster 60:10 Gary 53:18 94:12,20 113:9 gasoline 37:24 93:1 Gauther 46:10 Gauthier 46:3	120:12 give 56:17 58:3 66:19 81:13 82:3 139:10 given 49:21 53:24 67:7 92:9 94:19 109:24 142:6 144:5 gives 101:5 137:10 giving 84:14 glad 72:23 Global 61:1,2 go 5:16 24:21 29:18 30:3 34:7 50:8 59:17 98:15 102:19 103:6 105:21 113:21 115:10,10	96:1 97:10,16 97:19 guess 31:8 67:10 78:4 80:7 guidance 12:18 15:2 27:7 44:21 78:17 80:24 gunning 124:3 H H 3:7 4:1 half 72:7 handwritten 54:15 happen 65:20 harm 55:2 HARRISON 1:13 2:12 having 5:10	7:13 home 51:3 64:24 67:17 83:10 homes 24:5,9 43:1 64:20 65:20 66:20 67:11 hook 126:6 house 48:13 50:24 51:12 110:5,10 housing 16:8,9 Howard 3:22 78:4 79:4 80:15,17,23 Howell 60:2,4 human 11:24 63:7 105:23 114:14 H-I-G-H-T	import 63:1 important 110:10 importantly 15:1 103:18 imported 63:5 64:6 importing 110:1 inaccuracies 56:20 inaccuracy 56:18 57:15 58:13 Inc 7:12,13 43:9,10 inches 33:6,19 33:21 34:1,3 34:14,14,24 95:3,7,11,12 95:22,22,23	124:17 125:7 126:16 indicates 26:24 27:3 55:9 98:4 125:22 individuals 78:15 industrial 60:14 116:10 industries 75:1 75:4 inexpensive 15:7 infer 125:2 inference 125:4 inform 69:6 information 18:8 23:22 55:18,20 66:12 78:8 114:11,19,22
94:16,22 41:22 health 3:20 identification include 9:10 initiated 27:19 109:8 115:8,9 goes 83:15 11:24 16:15 6:21 21:5 57:22 initiative	fund 99:19 100:9 106:23 fundamental 102:11 funding 99:15 further 83:12 103:10 123:11 future 123:4 F-A-S-T 36:15  G G 144:9 Ganster 60:10 Gary 53:18 94:12,20 113:9 gasoline 37:24 93:1 Gauther 46:10 Gauthier 46:3 46:11	120:12 give 56:17 58:3 66:19 81:13 82:3 139:10 given 49:21 53:24 67:7 92:9 94:19 109:24 142:6 144:5 gives 101:5 137:10 giving 84:14 glad 72:23 Global 61:1,2 go 5:16 24:21 29:18 30:3 34:7 50:8 59:17 98:15 102:19 103:6 105:21 113:21 115:10,10 goal 100:14	96:1 97:10,16 97:19 guess 31:8 67:10 78:4 80:7 guidance 12:18 15:2 27:7 44:21 78:17 80:24 gunning 124:3 H H 3:7 4:1 half 72:7 handwritten 54:15 happen 65:20 harm 55:2 HARRISON 1:13 2:12 having 5:10 44:18 102:19	7:13 home 51:3 64:24 67:17 83:10 homes 24:5,9 43:1 64:20 65:20 66:20 67:11 hook 126:6 house 48:13 50:24 51:12 110:5,10 housing 16:8,9 Howard 3:22 78:4 79:4 80:15,17,23 Howell 60:2,4 human 11:24 63:7 105:23 114:14 H-I-G-H-T	import 63:1 important 110:10 importantly 15:1 103:18 imported 63:5 64:6 importing 110:1 inaccuracies 56:20 inaccuracy 56:18 57:15 58:13 Inc 7:12,13 43:9,10 inches 33:6,19 33:21 34:1,3 34:14,14,24 95:3,7,11,12 95:22,22,23 132:12,18	124:17 125:7 126:16 indicates 26:24 27:3 55:9 98:4 125:22 individuals 78:15 industrial 60:14 116:10 industries 75:1 75:4 inexpensive 15:7 infer 125:2 inference 125:4 inform 69:6 information 18:8 23:22 55:18,20 66:12 78:8 114:11,19,22 114:24
109:8 115:8,9 goes 83:15 11:24 16:15 6:21 21:5 57:22 initiative	fund 99:19 100:9 106:23 fundamental 102:11 funding 99:15 further 83:12 103:10 123:11 future 123:4 F-A-S-T 36:15  G G 144:9 Ganster 60:10 Gary 53:18 94:12,20 113:9 gasoline 37:24 93:1 Gauther 46:10 Gauthier 46:3 46:11 Gauthier's 46:9	120:12 give 56:17 58:3 66:19 81:13 82:3 139:10 given 49:21 53:24 67:7 92:9 94:19 109:24 142:6 144:5 gives 101:5 137:10 giving 84:14 glad 72:23 Global 61:1,2 go 5:16 24:21 29:18 30:3 34:7 50:8 59:17 98:15 102:19 103:6 105:21 113:21 115:10,10 goal 100:14 102:20	96:1 97:10,16 97:19 guess 31:8 67:10 78:4 80:7 guidance 12:18 15:2 27:7 44:21 78:17 80:24 gunning 124:3 H H 3:7 4:1 half 72:7 handwritten 54:15 happen 65:20 harm 55:2 HARRISON 1:13 2:12 having 5:10 44:18 102:19 Hawkins 46:2,4	7:13 home 51:3 64:24 67:17 83:10 homes 24:5,9 43:1 64:20 65:20 66:20 67:11 hook 126:6 house 48:13 50:24 51:12 110:5,10 housing 16:8,9 Howard 3:22 78:4 79:4 80:15,17,23 Howell 60:2,4 human 11:24 63:7 105:23 114:14 H-I-G-H-T	import 63:1 important 110:10 importantly 15:1 103:18 imported 63:5 64:6 importing 110:1 inaccuracies 56:20 inaccuracy 56:18 57:15 58:13 Inc 7:12,13 43:9,10 inches 33:6,19 33:21 34:1,3 34:14,14,24 95:3,7,11,12 95:22,22,23 132:12,18 133:23 137:18	124:17 125:7 126:16 indicates 26:24 27:3 55:9 98:4 125:22 individuals 78:15 industrial 60:14 116:10 industries 75:1 75:4 inexpensive 15:7 infer 125:2 inference 125:4 inform 69:6 information 18:8 23:22 55:18,20 66:12 78:8 114:11,19,22 114:24 informed 48:8
	fund 99:19 100:9 106:23 fundamental 102:11 funding 99:15 further 83:12 103:10 123:11 future 123:4 F-A-S-T 36:15  G G 144:9 Ganster 60:10 Gary 53:18 94:12,20 113:9 gasoline 37:24 93:1 Gauther 46:10 Gauthier 46:3 46:11 Gauthier's 46:9 gave 58:20 75:7	120:12 give 56:17 58:3 66:19 81:13 82:3 139:10 given 49:21 53:24 67:7 92:9 94:19 109:24 142:6 144:5 gives 101:5 137:10 giving 84:14 glad 72:23 Global 61:1,2 go 5:16 24:21 29:18 30:3 34:7 50:8 59:17 98:15 102:19 103:6 105:21 113:21 115:10,10 goal 100:14 102:20 Goberni 41:21	96:1 97:10,16 97:19 guess 31:8 67:10 78:4 80:7 guidance 12:18 15:2 27:7 44:21 78:17 80:24 gunning 124:3 H H 3:7 4:1 half 72:7 handwritten 54:15 happen 65:20 harm 55:2 HARRISON 1:13 2:12 having 5:10 44:18 102:19 Hawkins 46:2,4 head 40:15,18	7:13 home 51:3 64:24 67:17 83:10 homes 24:5,9 43:1 64:20 65:20 66:20 67:11 hook 126:6 house 48:13 50:24 51:12 110:5,10 housing 16:8,9 Howard 3:22 78:4 79:4 80:15,17,23 Howell 60:2,4 human 11:24 63:7 105:23 114:14 H-I-G-H-T 29:23	import 63:1 important 110:10 importantly 15:1 103:18 imported 63:5 64:6 importing 110:1 inaccuracies 56:20 inaccuracy 56:18 57:15 58:13 Inc 7:12,13 43:9,10 inches 33:6,19 33:21 34:1,3 34:14,14,24 95:3,7,11,12 95:22,22,23 132:12,18 133:23 137:18 138:10	124:17 125:7 126:16 indicates 26:24 27:3 55:9 98:4 125:22 individuals 78:15 industrial 60:14 116:10 industries 75:1 75:4 inexpensive 15:7 infer 125:2 inference 125:4 inform 69:6 information 18:8 23:22 55:18,20 66:12 78:8 114:11,19,22 114:24 informed 48:8 89:3 117:19
geddie 2:8 3:9 100:14 40:12 60:14 49:19 53:14 included 30:17 100:10	fund 99:19 100:9 106:23 fundamental 102:11 funding 99:15 further 83:12 103:10 123:11 future 123:4 F-A-S-T 36:15  G G 144:9 Ganster 60:10 Gary 53:18 94:12,20 113:9 gasoline 37:24 93:1 Gauther 46:10 Gauthier 46:3 46:11 Gauthier's 46:9 gave 58:20 75:7 94:16,22	120:12 give 56:17 58:3 66:19 81:13 82:3 139:10 given 49:21 53:24 67:7 92:9 94:19 109:24 142:6 144:5 gives 101:5 137:10 giving 84:14 glad 72:23 Global 61:1,2 go 5:16 24:21 29:18 30:3 34:7 50:8 59:17 98:15 102:19 103:6 105:21 113:21 115:10,10 goal 100:14 102:20 Goberni 41:21 41:22	96:1 97:10,16 97:19 guess 31:8 67:10 78:4 80:7 guidance 12:18 15:2 27:7 44:21 78:17 80:24 gunning 124:3 H H 3:7 4:1 half 72:7 handwritten 54:15 happen 65:20 harm 55:2 HARRISON 1:13 2:12 having 5:10 44:18 102:19 Hawkins 46:2,4 head 40:15,18 health 3:20	7:13 home 51:3 64:24 67:17 83:10 homes 24:5,9 43:1 64:20 65:20 66:20 67:11 hook 126:6 house 48:13 50:24 51:12 110:5,10 housing 16:8,9 Howard 3:22 78:4 79:4 80:15,17,23 Howell 60:2,4 human 11:24 63:7 105:23 114:14 H-I-G-H-T 29:23	import 63:1 important 110:10 importantly 15:1 103:18 imported 63:5 64:6 importing 110:1 inaccuracies 56:20 inaccuracy 56:18 57:15 58:13 Inc 7:12,13 43:9,10 inches 33:6,19 33:21 34:1,3 34:14,14,24 95:3,7,11,12 95:22,22,23 132:12,18 133:23 137:18 138:10 include 9:10	124:17 125:7 126:16 indicates 26:24 27:3 55:9 98:4 125:22 individuals 78:15 industrial 60:14 116:10 industries 75:1 75:4 inexpensive 15:7 infer 125:2 inference 125:4 inform 69:6 information 18:8 23:22 55:18,20 66:12 78:8 114:11,19,22 114:24 informed 48:8 89:3 117:19 initiated 27:19
	fund 99:19 100:9 106:23 fundamental 102:11 funding 99:15 further 83:12 103:10 123:11 future 123:4 F-A-S-T 36:15  G G 144:9 Ganster 60:10 Gary 53:18 94:12,20 113:9 gasoline 37:24 93:1 Gauther 46:10 Gauthier 46:3 46:11 Gauthier's 46:9 gave 58:20 75:7 94:16,22 109:8 115:8,9	120:12 give 56:17 58:3 66:19 81:13 82:3 139:10 given 49:21 53:24 67:7 92:9 94:19 109:24 142:6 144:5 gives 101:5 137:10 giving 84:14 glad 72:23 Global 61:1,2 go 5:16 24:21 29:18 30:3 34:7 50:8 59:17 98:15 102:19 103:6 105:21 113:21 115:10,10 goal 100:14 102:20 Goberni 41:21 41:22 goes 83:15	96:1 97:10,16 97:19 guess 31:8 67:10 78:4 80:7 guidance 12:18 15:2 27:7 44:21 78:17 80:24 gunning 124:3 H H 3:7 4:1 half 72:7 handwritten 54:15 happen 65:20 harm 55:2 HARRISON 1:13 2:12 having 5:10 44:18 102:19 Hawkins 46:2,4 head 40:15,18 health 3:20 11:24 16:15	7:13 home 51:3 64:24 67:17 83:10 homes 24:5,9 43:1 64:20 65:20 66:20 67:11 hook 126:6 house 48:13 50:24 51:12 110:5,10 housing 16:8,9 Howard 3:22 78:4 79:4 80:15,17,23 Howell 60:2,4 human 11:24 63:7 105:23 114:14 H-I-G-H-T 29:23  identification 6:21 21:5	import 63:1 important 110:10 importantly 15:1 103:18 imported 63:5 64:6 importing 110:1 inaccuracies 56:20 inaccuracy 56:18 57:15 58:13 Inc 7:12,13 43:9,10 inches 33:6,19 33:21 34:1,3 34:14,14,24 95:3,7,11,12 95:22,22,23 132:12,18 133:23 137:18 138:10 include 9:10 57:22	124:17 125:7 126:16 indicates 26:24 27:3 55:9 98:4 125:22 individuals 78:15 industrial 60:14 116:10 industries 75:1 75:4 inexpensive 15:7 infer 125:2 inference 125:4 inform 69:6 information 18:8 23:22 55:18,20 66:12 78:8 114:11,19,22 114:24 informed 48:8 89:3 117:19 initiated 27:19 initiative
	fund 99:19 100:9 106:23 fundamental 102:11 funding 99:15 further 83:12 103:10 123:11 future 123:4 F-A-S-T 36:15  G G 144:9 Ganster 60:10 Gary 53:18 94:12,20 113:9 gasoline 37:24 93:1 Gauther 46:10 Gauthier 46:3 46:11 Gauthier's 46:9 gave 58:20 75:7 94:16,22 109:8 115:8,9	120:12 give 56:17 58:3 66:19 81:13 82:3 139:10 given 49:21 53:24 67:7 92:9 94:19 109:24 142:6 144:5 gives 101:5 137:10 giving 84:14 glad 72:23 Global 61:1,2 go 5:16 24:21 29:18 30:3 34:7 50:8 59:17 98:15 102:19 103:6 105:21 113:21 115:10,10 goal 100:14 102:20 Goberni 41:21 41:22 goes 83:15	96:1 97:10,16 97:19 guess 31:8 67:10 78:4 80:7 guidance 12:18 15:2 27:7 44:21 78:17 80:24 gunning 124:3 H H 3:7 4:1 half 72:7 handwritten 54:15 happen 65:20 harm 55:2 HARRISON 1:13 2:12 having 5:10 44:18 102:19 Hawkins 46:2,4 head 40:15,18 health 3:20 11:24 16:15	7:13 home 51:3 64:24 67:17 83:10 homes 24:5,9 43:1 64:20 65:20 66:20 67:11 hook 126:6 house 48:13 50:24 51:12 110:5,10 housing 16:8,9 Howard 3:22 78:4 79:4 80:15,17,23 Howell 60:2,4 human 11:24 63:7 105:23 114:14 H-I-G-H-T 29:23  identification 6:21 21:5	import 63:1 important 110:10 importantly 15:1 103:18 imported 63:5 64:6 importing 110:1 inaccuracies 56:20 inaccuracy 56:18 57:15 58:13 Inc 7:12,13 43:9,10 inches 33:6,19 33:21 34:1,3 34:14,14,24 95:3,7,11,12 95:22,22,23 132:12,18 133:23 137:18 138:10 include 9:10 57:22	124:17 125:7 126:16 indicates 26:24 27:3 55:9 98:4 125:22 individuals 78:15 industrial 60:14 116:10 industries 75:1 75:4 inexpensive 15:7 infer 125:2 inference 125:4 inform 69:6 information 18:8 23:22 55:18,20 66:12 78:8 114:11,19,22 114:24 informed 48:8 89:3 117:19 initiated 27:19 initiative

injured 68:24	120:18 121:5	100:13	34:8,15 36:4	65:12 78:23	109:14,18
: 100:5	122:10 127:10	; 100.13 !	36:17,21 38:8	79:23 96:2	110:9 111:18
injury 27:21	127:13	K	38:15 41:22	100:11 108:8	111:20 112:23
input 63:3 64:2	in-house 67:24	Kaiya 60:12	42:11 43:2,3	112:10,14,15	112:24 113:6
inputs 14:8	79:7	Kennedy 1:22	43:23 44:5,6,9	114:4,10	114:13,14
110:14.18	Ioannidas 41:9	Kevin 13:2 64:4	44:13,24	121:24 128:8	120:22 121:11
inquiring 6:3	lonaiddas	107:13,24	47:19,21	132:9	123:23 126:17
inside 50:21	41:10,11	107:13,24	48:12,16	late 18:24 19:2	129:6,18
51:3 67:22	issue 102:11	137:9	59:15,16 60:2	52:24 57:12	130:9,19,21
insisted 19:11	104:1,3	kids 68:23	61:12,19,20	law 18:14 43:21	131:5,11
33:15	132:10	135:20	62:3,5 64:8,17	49:14 56:13	135:14,16,21
insofar 123:21	issues 40:11,13	kilogram 24:24	64:20 65:2,5,9	106:10	135:24
installed 57:11	61:10	25:1 31:14	65:10,19	lawsuit 17:13	leaded 37:23
57:12	I-O-A-N-N-I-D	32:6	66:10 67:2,16	53:4 74:8	93:1
instead 35:1	41:9	kilograms	70:18,20	lawsuits 27:18	leads 27:2
64:2 121:2		31:17	71:18 73:3,17	74:10,13	lead-causing
132:12 139:1	J	kind 34:21	73:20,21 74:9	lawyer 5:23	27:21
INSTRUCTIO		50:11 58:2	74:15,15 75:3	lawyers 35:14	lease 65:4,8
141:2	49:6,9	111:12 124:11	75:6,23 76:12	134:4	66:23,24 67:3
insurance 61:5	January 50:6	124:12 126:24	76:19 77:9	lead 10:10,13	leased 66:20
insuring 105:22	84:2 90:9	129:9	79:17 81:3	10:14,16,19	leasing 65:16
Integrated	107:12	King 9:11 11:7	83:18 88:1,8	14:4,7,8,15,15	65:17
109:16	Jeff 40:24	11:10 12:1,5	88:21 89:1	15:11,14,18	least 55:20
integrity 45:2,6	52:10	16:21,24	91:22 95:6,8	15:20 16:2,18	56:19 58:2
intended 78:3	Jersey 9:19	22:20 23:5,13	95:10,10,14	16:19 19:22	61:19 80:10
intends 107:4	Jessica 46:19	24:6,13 28:13	103:15 107:3	22:11,16,20	95:3 99:6
intention 6:4	job 7:17 8:2,11	30:7 36:5,12	108:23 110:14	23:2,4,8,10,10	115:5 125:14
interact 110:13	8:13,14	36:13 37:12	112:6 117:16	23:13,15,19	127:12 128:20
interested 79:3	125:17	38:9,17 39:18	118:15 121:4	24:9,11,12,16	129:12
interpretation	John 1:22	42:2,17,23	123:14,15	24:23 26:10	leave 81:6.8
127:18,21	39:10,14	43:1 44:11	125:18,24	26:18,21 27:4	Lebo 3:18,19
interrupt 133:7	joined 85:8	46:15,19,22	128:15 132:2	27:8,12 28:14	4:3 35:16
introduction	Jones 3:14	47:1 48:10	132:4,9	31:10,13	40:17 60:8,11
22:4,10	Journal 136:7	49:2 51:20	133:24 135:3	37:11,15,20	60:15 86:23
Introduction/E	jr 2:3,8 3:4	52:16 59:6,12	135:6,16,19	38:2 39:5	87:10 94:3.6.9
83:8	<b>Judge</b> 6:10	59:13 62:11	137:5	40:24 46:21	96:23 101:14
introductory	July 19:10 88:4	62:18 63:12	knowing	47:2,5 48:9,12	115:14,18
5:17	88:7,7 94:13	63:13,21	103:12	51:3,12 52:1	116:1
investigate	94:21,24	64:14,18,21	knowledge	52:10 59:22	left 35:11
18:17	113:9 115:5	64:24 65:23	18:11 24:10	62:11,14,18	legal 8:20 72:24
investigated	132:13 133:2	66:8,20 67:8	33:1 62:14	63:9 64:14	legitimate
43:17	July/August	67:12 68:5	71:23 73:16	66:9,21 67:14	122:16,20
investigation	133:1	69:18 73:3	88:17 93:13	, 0.12. 00.012.	less 27:1 31:12
18:21,23 42:3	June 16:10	97:21 101:20	95:23 107:9	68:24 69:4,7	64:5
43:13 83:16	115:13 129:12	102:2,13,16	known 92:7	69:15 70:15	let 17:3 26:23
83:18,24 90:8	133:3,4	103:2,8,22	Koporec 13:2,6	70:21 71:1	. 35:18 42:15 . 40:11 53:8
90:13 91:24	134:13 136:6	104:7,11,17	64:4 107:13 107:24 113:14	73:15 74:12 74:12 75:1,4	49:11 53:8
96:3,17 101:20 122:17	just 28:2 30:18	105:11 106:23	l .		56:22 114:7 letter 3:9,13,14
123:20,22	36:1 42:15	107:7 111:23	137:10 Koporec's	75:24 76:9 79:15,20,24	
	53:10 54:9	116:3 126:5,6	Koporec's 109:7 113:19		3:15,18,20,23 4:4 5:24 6:14
124:16,18 125:3 13 15	56:6 58:22	131:5	137:12	80:2,3 83:9,23 84:6 90:11.17	6:17 35:16
. 125:3,13,15 128:7 129:5	72:5 77:11,16	Kings 116:19	K-A-I-Y-A	90:19,21,23	53:19,20 54:4
128:7 129:3	78:20 87:8,11	117:6,13	60:12	90:19,21,23	54:6,12,14,24
investigations	95:7,8 102:7	118:7	00.12	92:10,24 93:1	55:6,15 56:3,9
43:7	107:16 110:13	KK 85:24	L	93:2,10,16	56:12,13,19
Investments	111:18 117:1	knew 120:21		96:4,11,13,15	56:21,24 57:6
7:13	123:18 124:5	know 5:18,19	L 2:8,12 85:7	97:12,16 98:6	57:6,16,18
investors 45:13	137:5 138:21	7:5,7 10:20	laboratory	98:13,16,22	58:1,11 77:17
investors 43.13	justification	15:6 18:2,3	14:21 60:14	99:7,8 100:6,8	85:4 86:19,23
involved 27:14	94:11,17,19	19:1 20:5,7,9	Labs 3:11	100:17,21	87:4 89:11
34:11 37:4	94:22 100:18	20:13 23:1,6,7	49:17	100:17,21	94:2,5,6,7,13
39:17 43:23	101:1,6	23:14,22 24:3	large 97:13	105:12 106:2	94:21,24 95:1
53:3 66:23	106:18 109:9 121:6	24:15,16 27:24 28:23	largely 108:10 last 17:3 55:8	106:3 108:11	96:22 97:5
		' 1' 'A 'A'' / S	18SL 17C5 33'8	11:0012 100:11	; ラリ・ムム ブノ・コ
74:11,24	justifying	30:1,2 32:19	58:8 60:13	108:21,22	101:13,16

					· · · · · · · · · · · · · · · · · · ·
102:4,8	09.6.13	50:1 52:14	27.19.24	27.2 42.5	21.16
107:21 108:3	98:6,13 100:17 101:5	53:7 58:9	27:18,24	27:2 42:5	31:16
	l		28:13,23 33:6	means 14:20	milligrams 32:6
108:6,7	102:17 105:18	95:24 110:7	33:19 39:1	78:2 144:13	milligrams/kilo
110:22 111:7	105:19 123:23	115:20	47:16 64:17	meant 127:24	94:12
111:10,11	126:14,17	looked 15:21	64:20 74:10	measure 44:2,7	million 12:21
112:5 113:1,5	135:15,17,21	16:1,10,14	105:19	measurement	12:24 13:3
113:10 115:14	135:24	30:19 49:6	March 89:12	14:15	19:12,20
115:19,23	Levin 5:23	81:10,18	Marino 46:20	medical 68:20	20:11 24:1
117:9 118:3,5	levine 1:12 3:3	120:3	46:24 79:11	69:3	25:11,14
118:23 120:11	3:15,22 4:4,5	looking 79:22	mark 1:4 53:10	meeting 45:13	31:18 35:1
120:17 121:23	5:9,16 6:6,23	79:24 99:12	54:7 70:13	45:17,22,23	36:11 48:17
127:2,3,7,9,15	53:20 85:5	lots 30:6 59:13	98:1	46:1,3,6,24	48:21 50:17
127:18,21	136:8 137:6	59:15,18 73:3	marked 6:20	112:20	50:23 51:19
128:2,24	142:3	73:9,14,15,18	21:4,9 49:18	member 8:9	52:12 59:7
129:12,14	Levine's 127:17	loud 77:21	53:13 77:12	members 39:15	80:11 97:8,13
132:11 133:2	lewis 1:14 2:12	Love 21:11	81:5 82:24	60:7	97:17 100:20
	43:21	40:21	85:9 86:10	memo 3:17	l .
139:14,15,18		low 26:9 108:9			101:2,7 104:4
letters 139:12	lia 9:5		89:14 93:23	13:1 107:13	104:9 106:8
let's 18:22	liabilities 9:6	109:5	96:24 101:10	107:24 109:7	106:12,24
24:21 50:8	40:9	lower 25:14	107:17 110:24	120:3,17,19	109:10,13
85:3 86:7	liability 61:6,7	80:4 132:8	115:15 118:19	121:1 137:10	113:11,17
103:6 113:21	61:11 123:23	138:1	126:20 128:19	137:12	116:11,15,17
level 10:21 11:9	licensed 14:21	luncheon 85:1	134:9 136:2	memorandum	117:8,13
11:17,18	light 139:16,19		Market 1:14	13:5 21:10	121:7 122:7
12:10,16,20	like 23:22 68:2	M	2:13	114:1	134:22 136:16
12:20,24 13:3	80:10 137:5	made 8:7 20:21	marketing 66:6	memory 16:3	mind 57:16
13:13 17:1,7	limitations	24:15 30:7,11	match 45:8	mention 18:16	79:21 95:7,14
19:11,13,17	72:11,17	35:2 38:8,13	materials 35:15	112:8	132:20 133:8
19:19,21	line 9:1 31:9	38:16 55:14	119:2	mentioned 18:4	135:7
23:14,19	90:6 96:2 97:6	56:4 59:8 67:2	Matt 40:21	23:21 37:10	minimum
25:14,22 26:7	102:10 112:15	71:15 72:19	matter 25:9	71:3 89:2 93:4	132:12
26:9,17 32:5	114:4,9 116:9	72:20 73:17	46:13,14	93:18 106:1	minutes 56:22
36:7 48:15	117:4 119:21		65:17 69:11	136:18	mischaracterize
		73:19 75:9	71:12 72:20		
51:16 52:2	131:10 132:9	90:20 129:5		mentioning	111:11 midland 122:2.5
59:18,22	143:4	130:23 134:2	103:9 111:17	112:11 135:20	mislead 122:2,5
62:17 63:6	lines 100:11	138:18 139:6	122:9 137:18	mentions	missing 87:9
; h/!hhhu!!			matters 6:4,8	118:22 119:1	
67:16 69:12	list 29:18 30:4	141:7			127:1
69:22 70:5,10	39:15 41:23	magnitude	9:2,4 28:7	134:18	Mo 9:17
69:22 70:5,10 76:12 79:11	39:15 41:23 82:1,3,6	magnitude 11:20	9:2,4 28:7 61:11	134:18 merits 95:18	Mo 9:17 Mobile 83:10
69:22 70:5,10 76:12 79:11 80:5,12 88:22	39:15 41:23 82:1,3,6 literature 69:3	magnitude	9:2,4 28:7 61:11 maximum	134:18 merits 95:18 message 78:10	Mo 9:17 Mobile 83:10 model 11:15
69:22 70:5,10 76:12 79:11	39:15 41:23 82:1,3,6 literature 69:3 litigation 17:15	magnitude 11:20 Magnolia 2:4 maiden 41:16	9:2,4 28:7 61:11 <b>maximum</b> 88:20	134:18 merits 95:18 message 78:10 80:17	Mo 9:17 Mobile 83:10 model 11:15 12:2,12 13:9
69:22 70:5,10 76:12 79:11 80:5,12 88:22 94:12 100:20	39:15 41:23 82:1,3,6 literature 69:3	magnitude 11:20 Magnolia 2:4	9:2,4 28:7 61:11 maximum	134:18 merits 95:18 message 78:10	Mo 9:17 Mobile 83:10 model 11:15
69:22 70:5,10 76:12 79:11 80:5,12 88:22 94:12 100:20	39:15 41:23 82:1,3,6 literature 69:3 litigation 17:15	magnitude 11:20 Magnolia 2:4 maiden 41:16	9:2,4 28:7 61:11 <b>maximum</b> 88:20	134:18 merits 95:18 message 78:10 80:17	Mo 9:17 Mobile 83:10 model 11:15 12:2,12 13:9
69:22 70:5,10 76:12 79:11 80:5,12 88:22 94:12 100:20 101:24 102:22	39:15 41:23 82:1,3,6 literature 69:3 litigation 17:15 27:14 28:7	magnitude 11:20 Magnolia 2:4 maiden 41:16 main 2:9 46:12 46:16	9:2,4 28:7 61:11 maximum 88:20 Maxwell 32:19	134:18 merits 95:18 message 78:10 80:17 messages 78:1	Mo 9:17 Mobile 83:10 model 11:15 12:2,12 13:9 13:12,15,21
69:22 70:5,10 76:12 79:11 80:5,12 88:22 94:12 100:20 101:24 102:22 102:24 103:21	39:15 41:23 82:1,3,6 literature 69:3 litigation 17:15 27:14 28:7 38:15 47:4	magnitude 11:20 Magnolia 2:4 maiden 41:16 main 2:9 46:12 46:16 mainly 90:10	9:2,4 28:7 61:11 maximum 88:20 Maxwell 32:19 32:21,23	134:18 merits 95:18 message 78:10 80:17 messages 78:1 Metals 76:10	Mo 9:17 Mobile 83:10 model 11:15 12:2,12 13:9 13:12,15,21 14:2,8 42:16
69:22 70:5,10 76:12 79:11 80:5,12 88:22 94:12 100:20 101:24 102:22 102:24 103:21 105:23 106:6 106:14 109:14	39:15 41:23 82:1,3,6 literature 69:3 litigation 17:15 27:14 28:7 38:15 47:4 48:3,6 50:2,7 81:20,22 82:2	magnitude 11:20 Magnolia 2:4 maiden 41:16 main 2:9 46:12 46:16 mainly 90:10 majority 30:23	9:2,4 28:7 61:11 maximum 88:20 Maxwell 32:19 32:21,23 may 3:10 43:22 45:13 86:13	134:18 merits 95:18 message 78:10 80:17 messages 78:1 Metals 76:10 meter 31:12	Mo 9:17 Mobile 83:10 model 11:15 12:2,12 13:9 13:12,15,21 14:2,8 42:16 42:19,24 63:4 63:12,19,23
69:22 70:5,10 76:12 79:11 80:5,12 88:22 94:12 100:20 101:24 102:22 102:24 103:21 105:23 106:6 106:14 109:14 111:19 113:11	39:15 41:23 82:1,3,6 literature 69:3 litigation 17:15 27:14 28:7 38:15 47:4 48:3,6 50:2,7 81:20,22 82:2 little 125:4	magnitude 11:20 Magnolia 2:4 maiden 41:16 main 2:9 46:12 46:16 mainly 90:10 majority 30:23 make 6:14,16	9:2,4 28:7 61:11 maximum 88:20 Maxwell 32:19 32:21,23 may 3:10 43:22 45:13 86:13 87:7 93:2	134:18 merits 95:18 message 78:10 80:17 messages 78:1 Metals 76:10 meter 31:12 method 15:4,6 26:6 139:19	Mo 9:17 Mobile 83:10 model 11:15 12:2,12 13:9 13:12,15,21 14:2,8 42:16 42:19,24 63:4 63:12,19,23 80:1,2 109:16
69:22 70:5,10 76:12 79:11 80:5,12 88:22 94:12 100:20 101:24 102:22 102:24 103:21 105:23 106:6 106:14 109:14 111:19 113:11 113:13,17	39:15 41:23 82:1,3,6 literature 69:3 litigation 17:15 27:14 28:7 38:15 47:4 48:3,6 50:2,7 81:20,22 82:2 little 125:4 live 64:17 105:5	magnitude 11:20 Magnolia 2:4 maiden 41:16 main 2:9 46:12 46:16 mainly 90:10 majority 30:23 make 6:14,16 34:17 54:9	9:2,4 28:7 61:11 maximum 88:20 Maxwell 32:19 32:21,23 may 3:10 43:22 45:13 86:13 87:7 93:2 114:19 115:3	134:18 merits 95:18 message 78:10 80:17 messages 78:1 Metals 76:10 meter 31:12 method 15:4,6 26:6 139:19 methods 84:4	Mo 9:17 Mobile 83:10 model 11:15 12:2,12 13:9 13:12,15,21 14:2,8 42:16 42:19,24 63:4 63:12,19,23 80:1,2 109:16 109:17,22
69:22 70:5,10 76:12 79:11 80:5,12 88:22 94:12 100:20 101:24 102:22 102:24 103:21 105:23 106:6 106:14 109:14 111:19 113:11 113:13,17 114:16 121:9	39:15 41:23 82:1,3,6 literature 69:3 litigation 17:15 27:14 28:7 38:15 47:4 48:3,6 50:2,7 81:20,22 82:2 little 125:4 live 64:17 105:5 lives 65:2	magnitude 11:20 Magnolia 2:4 maiden 41:16 main 2:9 46:12 46:16 mainly 90:10 majority 30:23 make 6:14,16 34:17 54:9 67:4 81:3 82:4	9:2,4 28:7 61:11 maximum 88:20 Maxwell 32:19 32:21,23 may 3:10 43:22 45:13 86:13 87:7 93:2 114:19 115:3 127:2 133:10	134:18 merits 95:18 message 78:10 80:17 messages 78:1 Metals 76:10 meter 31:12 method 15:4,6 26:6 139:19 methods 84:4 Michael 37:1	Mo 9:17 Mobile 83:10 model 11:15 12:2,12 13:9 13:12,15,21 14:2,8 42:16 42:19,24 63:4 63:12,19,23 80:1,2 109:16 109:17,22 110:1,12,18
69:22 70:5,10 76:12 79:11 80:5,12 88:22 94:12 100:20 101:24 102:22 102:24 103:21 105:23 106:6 106:14 109:14 111:19 113:11 113:13,17 114:16 121:9 122:6,9	39:15 41:23 82:1,3,6 literature 69:3 litigation 17:15 27:14 28:7 38:15 47:4 48:3,6 50:2,7 81:20,22 82:2 little 125:4 live 64:17 105:5 lives 65:2 living 55:4	magnitude 11:20 Magnolia 2:4 maiden 41:16 main 2:9 46:12 46:16 mainly 90:10 majority 30:23 make 6:14,16 34:17 54:9 67:4 81:3 82:4 85:3,5 95:15	9:2,4 28:7 61:11 maximum 88:20 Maxwell 32:19 32:21,23 may 3:10 43:22 45:13 86:13 87:7 93:2 114:19 115:3 127:2 133:10 141:17,18	134:18 merits 95:18 message 78:10 80:17 messages 78:1 Metals 76:10 meter 31:12 method 15:4,6 26:6 139:19 methods 84:4 Michael 37:1 micrograms	Mo 9:17 Mobile 83:10 model 11:15 12:2,12 13:9 13:12,15,21 14:2,8 42:16 42:19,24 63:4 63:12,19,23 80:1,2 109:16 109:17,22 110:1,12,18 110:19 118:6
69:22 70:5,10 76:12 79:11 80:5,12 88:22 94:12 100:20 101:24 102:22 102:24 103:21 105:23 106:6 106:14 109:14 111:19 113:11 113:13,17 114:16 121:9 122:6,9 134:22 137:23	39:15 41:23 82:1,3,6 literature 69:3 litigation 17:15 27:14 28:7 38:15 47:4 48:3,6 50:2,7 81:20,22 82:2 little 125:4 live 64:17 105:5 lives 65:2 living 55:4 LLC 7:15	magnitude 11:20 Magnolia 2:4 maiden 41:16 main 2:9 46:12 46:16 mainly 90:10 majority 30:23 make 6:14,16 34:17 54:9 67:4 81:3 82:4 85:3,5 95:15 107:16 138:24	9:2,4 28:7 61:11 maximum 88:20 Maxwell 32:19 32:21,23 may 3:10 43:22 45:13 86:13 87:7 93:2 114:19 115:3 127:2 133:10 141:17,18 maybe 125:19	134:18 merits 95:18 message 78:10 80:17 messages 78:1 Metals 76:10 meter 31:12 method 15:4,6 26:6 139:19 methods 84:4 Michael 37:1 micrograms 14:17 24:24	Mo 9:17 Mobile 83:10 model 11:15 12:2,12 13:9 13:12,15,21 14:2,8 42:16 42:19,24 63:4 63:12,19,23 80:1,2 109:16 109:17,22 110:1,12,18 110:19 118:6 118:9
69:22 70:5,10 76:12 79:11 80:5,12 88:22 94:12 100:20 101:24 102:22 102:24 103:21 105:23 106:6 106:14 109:14 111:19 113:11 113:13,17 114:16 121:9 122:6,9 134:22 137:23 138:1	39:15 41:23 82:1,3,6 literature 69:3 litigation 17:15 27:14 28:7 38:15 47:4 48:3,6 50:2,7 81:20,22 82:2 little 125:4 live 64:17 105:5 lives 65:2 living 55:4 LLC 7:15 LLP 1:14 2:12	magnitude 11:20 Magnolia 2:4 maiden 41:16 main 2:9 46:12 46:16 mainly 90:10 majority 30:23 make 6:14,16 34:17 54:9 67:4 81:3 82:4 85:3,5 95:15 107:16 138:24 139:4 141:5	9:2,4 28:7 61:11 maximum 88:20 Maxwell 32:19 32:21,23 may 3:10 43:22 45:13 86:13 87:7 93:2 114:19 115:3 127:2 133:10 141:17,18 maybe 125:19 126:5	134:18 merits 95:18 message 78:10 80:17 messages 78:1 Metals 76:10 meter 31:12 method 15:4,6 26:6 139:19 methods 84:4 Michael 37:1 micrograms 14:17 24:24 25:1 27:4,9	Mo 9:17 Mobile 83:10 model 11:15 12:2,12 13:9 13:12,15,21 14:2,8 42:16 42:19,24 63:4 63:12,19,23 80:1,2 109:16 109:17,22 110:1,12,18 110:19 118:6 118:9 modeling 12:8
69:22 70:5,10 76:12 79:11 80:5,12 88:22 94:12 100:20 101:24 102:22 102:24 103:21 105:23 106:6 106:14 109:14 111:19 113:11 113:13,17 114:16 121:9 122:6,9 134:22 137:23 138:1 levels 14:4,7	39:15 41:23 82:1,3,6 literature 69:3 litigation 17:15 27:14 28:7 38:15 47:4 48:3,6 50:2,7 81:20,22 82:2 little 125:4 live 64:17 105:5 lives 65:2 living 55:4 LLC 7:15 LLP 1:14 2:12 locate 56:22	magnitude 11:20 Magnolia 2:4 maiden 41:16 main 2:9 46:12 46:16 mainly 90:10 majority 30:23 make 6:14,16 34:17 54:9 67:4 81:3 82:4 85:3,5 95:15 107:16 138:24 139:4 141:5 makes 124:3	9:2,4 28:7 61:11 maximum 88:20 Maxwell 32:19 32:21,23 may 3:10 43:22 45:13 86:13 87:7 93:2 114:19 115:3 127:2 133:10 141:17,18 maybe 125:19 126:5 mean 14:19	134:18 merits 95:18 message 78:10 80:17 messages 78:1 Metals 76:10 meter 31:12 method 15:4,6 26:6 139:19 methods 84:4 Michael 37:1 micrograms 14:17 24:24 25:1 27:4,9 31:14	Mo 9:17 Mobile 83:10 model 11:15 12:2,12 13:9 13:12,15,21 14:2,8 42:16 42:19,24 63:4 63:12,19,23 80:1,2 109:16 109:17,22 110:1,12,18 110:19 118:6 118:9 modeling 12:8 12:17 13:8
69:22 70:5,10 76:12 79:11 80:5,12 88:22 94:12 100:20 101:24 102:22 102:24 103:21 105:23 106:6 106:14 109:14 111:19 113:11 113:13,17 114:16 121:9 122:6,9 134:22 137:23 138:1 levels 14:4,7 15:18 16:3,9	39:15 41:23 82:1,3,6 literature 69:3 litigation 17:15 27:14 28:7 38:15 47:4 48:3,6 50:2,7 81:20,22 82:2 little 125:4 live 64:17 105:5 lives 65:2 living 55:4 LLC 7:15 LLP 1:14 2:12 locate 56:22 81:22	magnitude 11:20 Magnolia 2:4 maiden 41:16 main 2:9 46:12 46:16 mainly 90:10 majority 30:23 make 6:14,16 34:17 54:9 67:4 81:3 82:4 85:3,5 95:15 107:16 138:24 139:4 141:5 makes 124:3 134:8	9:2,4 28:7 61:11 maximum 88:20 Maxwell 32:19 32:21,23 may 3:10 43:22 45:13 86:13 87:7 93:2 114:19 115:3 127:2 133:10 141:17,18 maybe 125:19 126:5 mean 14:19 20:17 28:4,17	134:18 merits 95:18 message 78:10 80:17 messages 78:1 Metals 76:10 meter 31:12 method 15:4,6 26:6 139:19 methods 84:4 Michael 37:1 micrograms 14:17 24:24 25:1 27:4,9 31:14 middle 24:22	Mo 9:17 Mobile 83:10 model 11:15 12:2,12 13:9 13:12,15,21 14:2,8 42:16 42:19,24 63:4 63:12,19,23 80:1,2 109:16 109:17,22 110:1,12,18 110:19 118:6 118:9 modeling 12:8 12:17 13:8 117:5
69:22 70:5,10 76:12 79:11 80:5,12 88:22 94:12 100:20 101:24 102:22 102:24 103:21 105:23 106:6 106:14 109:14 111:19 113:11 113:13,17 114:16 121:9 122:6,9 134:22 137:23 138:1 levels 14:4,7 15:18 16:3,9 16:18 17:5	39:15 41:23 82:1,3,6 literature 69:3 litigation 17:15 27:14 28:7 38:15 47:4 48:3,6 50:2,7 81:20,22 82:2 little 125:4 live 64:17 105:5 lives 65:2 living 55:4 LLC 7:15 LLP 1:14 2:12 locate 56:22 81:22 located 44:15	magnitude 11:20 Magnolia 2:4 maiden 41:16 main 2:9 46:12 46:16 mainly 90:10 majority 30:23 make 6:14,16 34:17 54:9 67:4 81:3 82:4 85:3,5 95:15 107:16 138:24 139:4 141:5 makes 124:3 134:8 making 28:8	9:2,4 28:7 61:11 maximum 88:20 Maxwell 32:19 32:21,23 may 3:10 43:22 45:13 86:13 87:7 93:2 114:19 115:3 127:2 133:10 141:17,18 maybe 125:19 126:5 mean 14:19 20:17 28:4,17 28:18 30:16	134:18 merits 95:18 message 78:10 80:17 messages 78:1 Metals 76:10 meter 31:12 method 15:4,6 26:6 139:19 methods 84:4 Michael 37:1 micrograms 14:17 24:24 25:1 27:4,9 31:14 middle 24:22 128:23,23	Mo 9:17 Mobile 83:10 model 11:15 12:2,12 13:9 13:12,15,21 14:2,8 42:16 42:19,24 63:4 63:12,19,23 80:1,2 109:16 109:17,22 110:1,12,18 110:19 118:6 118:9 modeling 12:8 12:17 13:8 117:5 models 70:8
69:22 70:5,10 76:12 79:11 80:5,12 88:22 94:12 100:20 101:24 102:22 102:24 103:21 105:23 106:6 106:14 109:14 111:19 113:11 113:13,17 114:16 121:9 122:6,9 134:22 137:23 138:1 levels 14:4,7 15:18 16:3,9 16:18 17:5 23:4,13 25:12	39:15 41:23 82:1,3,6 literature 69:3 litigation 17:15 27:14 28:7 38:15 47:4 48:3,6 50:2,7 81:20,22 82:2 little 125:4 live 64:17 105:5 lives 65:2 living 55:4 LLC 7:15 LLP 1:14 2:12 locate 56:22 81:22 located 44:15 66:4 85:18	magnitude 11:20 Magnolia 2:4 maiden 41:16 main 2:9 46:12 46:16 mainly 90:10 majority 30:23 make 6:14,16 34:17 54:9 67:4 81:3 82:4 85:3,5 95:15 107:16 138:24 139:4 141:5 makes 124:3 134:8 making 28:8 135:1 139:2	9:2,4 28:7 61:11 maximum 88:20 Maxwell 32:19 32:21,23 may 3:10 43:22 45:13 86:13 87:7 93:2 114:19 115:3 127:2 133:10 141:17,18 maybe 125:19 126:5 mean 14:19 20:17 28:4,17 28:18 30:16 31:21 55:22	134:18 merits 95:18 message 78:10 80:17 messages 78:1 Metals 76:10 meter 31:12 method 15:4,6 26:6 139:19 methods 84:4 Michael 37:1 micrograms 14:17 24:24 25:1 27:4,9 31:14 middle 24:22 128:23,23 Mid-1990s	Mo 9:17 Mobile 83:10 model 11:15 12:2,12 13:9 13:12,15,21 14:2,8 42:16 42:19,24 63:4 63:12,19,23 80:1,2 109:16 109:17,22 110:1,12,18 110:19 118:6 118:9 modeling 12:8 12:17 13:8 117:5 models 70:8 105:16
69:22 70:5,10 76:12 79:11 80:5,12 88:22 94:12 100:20 101:24 102:22 102:24 103:21 105:23 106:6 106:14 109:14 111:19 113:11 113:13,17 114:16 121:9 122:6,9 134:22 137:23 138:1 levels 14:4,7 15:18 16:3,9 16:18 17:5 23:4,13 25:12 25:15 26:10	39:15 41:23 82:1,3,6 literature 69:3 litigation 17:15 27:14 28:7 38:15 47:4 48:3,6 50:2,7 81:20,22 82:2 little 125:4 live 64:17 105:5 lives 65:2 living 55:4 LLC 7:15 LLP 1:14 2:12 locate 56:22 81:22 located 44:15 66:4 85:18 location 92:3	magnitude 11:20 Magnolia 2:4 maiden 41:16 main 2:9 46:12 46:16 mainly 90:10 majority 30:23 make 6:14,16 34:17 54:9 67:4 81:3 82:4 85:3,5 95:15 107:16 138:24 139:4 141:5 makes 124:3 134:8 making 28:8 135:1 139:2 Malen 1:17	9:2,4 28:7 61:11 maximum 88:20 Maxwell 32:19 32:21,23 may 3:10 43:22 45:13 86:13 87:7 93:2 114:19 115:3 127:2 133:10 141:17,18 maybe 125:19 126:5 mean 14:19 20:17 28:4,17 28:18 30:16 31:21 55:22 56:9 63:24	134:18 merits 95:18 message 78:10 80:17 messages 78:1 Metals 76:10 meter 31:12 method 15:4,6 26:6 139:19 methods 84:4 Michael 37:1 micrograms 14:17 24:24 25:1 27:4,9 31:14 middle 24:22 128:23,23 Mid-1990s 76:20	Mo 9:17 Mobile 83:10 model 11:15 12:2,12 13:9 13:12,15,21 14:2,8 42:16 42:19,24 63:4 63:12,19,23 80:1,2 109:16 109:17,22 110:1,12,18 110:19 118:6 118:9 modeling 12:8 12:17 13:8 117:5 models 70:8 105:16 moment 115:20
69:22 70:5,10 76:12 79:11 80:5,12 88:22 94:12 100:20 101:24 102:22 102:24 103:21 105:23 106:6 106:14 109:14 111:19 113:11 113:13,17 114:16 121:9 122:6,9 134:22 137:23 138:1 levels 14:4,7 15:18 16:3,9 16:18 17:5 23:4,13 25:12 25:15 26:10 26:18,21	39:15 41:23 82:1,3,6 literature 69:3 litigation 17:15 27:14 28:7 38:15 47:4 48:3,6 50:2,7 81:20,22 82:2 little 125:4 live 64:17 105:5 lives 65:2 living 55:4 LLC 7:15 LLP 1:14 2:12 locate 56:22 81:22 located 44:15 66:4 85:18 location 92:3 93:17	magnitude 11:20 Magnolia 2:4 maiden 41:16 main 2:9 46:12 46:16 mainly 90:10 majority 30:23 make 6:14,16 34:17 54:9 67:4 81:3 82:4 85:3,5 95:15 107:16 138:24 139:4 141:5 makes 124:3 134:8 making 28:8 135:1 139:2 Malen 1:17 144:9	9:2,4 28:7 61:11 maximum 88:20 Maxwell 32:19 32:21,23 may 3:10 43:22 45:13 86:13 87:7 93:2 114:19 115:3 127:2 133:10 141:17,18 maybe 125:19 126:5 mean 14:19 20:17 28:4,17 28:18 30:16 31:21 55:22 56:9 63:24 67:12 79:10	134:18 merits 95:18 message 78:10 80:17 messages 78:1 Metals 76:10 meter 31:12 method 15:4,6 26:6 139:19 methods 84:4 Michael 37:1 micrograms 14:17 24:24 25:1 27:4,9 31:14 middle 24:22 128:23,23 Mid-1990s 76:20 might 28:3	Mo 9:17 Mobile 83:10 model 11:15 12:2,12 13:9 13:12,15,21 14:2,8 42:16 42:19,24 63:4 63:12,19,23 80:1,2 109:16 109:17,22 110:1,12,18 110:19 118:6 118:9 modeling 12:8 12:17 13:8 17:5 models 70:8 105:16 moment 115:20 money 61:12
69:22 70:5,10 76:12 79:11 80:5,12 88:22 94:12 100:20 101:24 102:22 102:24 103:21 105:23 106:6 106:14 109:14 111:19 113:11 113:13,17 114:16 121:9 122:6,9 134:22 137:23 138:1 levels 14:4,7 15:18 16:3,9 16:18 17:5 23:4,13 25:12 25:15 26:10 26:18,21 37:20 46:21	39:15 41:23 82:1,3,6 literature 69:3 litigation 17:15 27:14 28:7 38:15 47:4 48:3,6 50:2,7 81:20,22 82:2 little 125:4 live 64:17 105:5 lives 65:2 living 55:4 LLC 7:15 LLP 1:14 2:12 locate 56:22 81:22 located 44:15 66:4 85:18 location 92:3 93:17 locations 45:9	magnitude 11:20 Magnolia 2:4 maiden 41:16 main 2:9 46:12 46:16 mainly 90:10 majority 30:23 make 6:14,16 34:17 54:9 67:4 81:3 82:4 85:3,5 95:15 107:16 138:24 139:4 141:5 makes 124:3 134:8 making 28:8 135:1 139:2 Malen 1:17 144:9 management	9:2,4 28:7 61:11 maximum 88:20 Maxwell 32:19 32:21,23 may 3:10 43:22 45:13 86:13 87:7 93:2 114:19 115:3 127:2 133:10 141:17,18 maybe 125:19 126:5 mean 14:19 20:17 28:4,17 28:18 30:16 31:21 55:22 56:9 63:24 67:12 79:10 84:9 90:7	134:18 merits 95:18 message 78:10 80:17 messages 78:1 Metals 76:10 meter 31:12 method 15:4,6 26:6 139:19 methods 84:4 Michael 37:1 micrograms 14:17 24:24 25:1 27:4,9 31:14 middle 24:22 128:23,23 Mid-1990s 76:20 might 28:3 34:10 42:14	Mo 9:17 Mobile 83:10 model 11:15 12:2,12 13:9 13:12,15,21 14:2,8 42:16 42:19,24 63:4 63:12,19,23 80:1,2 109:16 109:17,22 110:1,12,18 110:19 118:6 118:9 modeling 12:8 12:17 13:8 117:5 models 70:8 105:16 moment 115:20 money 61:12 75:3 99:18
69:22 70:5,10 76:12 79:11 80:5,12 88:22 94:12 100:20 101:24 102:22 102:24 103:21 105:23 106:6 106:14 109:14 111:19 113:11 113:13,17 114:16 121:9 122:6,9 134:22 137:23 138:1 levels 14:4,7 15:18 16:3,9 16:18 17:5 23:4,13 25:12 25:15 26:10 26:18,21 37:20 46:21 48:12 52:1	39:15 41:23 82:1,3,6 literature 69:3 litigation 17:15 27:14 28:7 38:15 47:4 48:3,6 50:2,7 81:20,22 82:2 little 125:4 live 64:17 105:5 lives 65:2 living 55:4 LLC 7:15 LLP 1:14 2:12 locate 56:22 81:22 located 44:15 66:4 85:18 location 92:3 93:17 locations 45:9 62:15 69:21	magnitude 11:20 Magnolia 2:4 maiden 41:16 main 2:9 46:12 46:16 mainly 90:10 majority 30:23 make 6:14,16 34:17 54:9 67:4 81:3 82:4 85:3,5 95:15 107:16 138:24 139:4 141:5 makes 124:3 134:8 making 28:8 135:1 139:2 Malen 1:17 144:9 management 8:9 61:1,2	9:2,4 28:7 61:11 maximum 88:20 Maxwell 32:19 32:21,23 may 3:10 43:22 45:13 86:13 87:7 93:2 114:19 115:3 127:2 133:10 141:17,18 maybe 125:19 126:5 mean 14:19 20:17 28:4,17 28:18 30:16 31:21 55:22 56:9 63:24 67:12 79:10 84:9 90:7 92:15 95:10	134:18 merits 95:18 message 78:10 80:17 messages 78:1 Metals 76:10 meter 31:12 method 15:4,6 26:6 139:19 methods 84:4 Michael 37:1 micrograms 14:17 24:24 25:1 27:4,9 31:14 middle 24:22 128:23,23 Mid-1990s 76:20 might 28:3 34:10 42:14 54:10 62:8	Mo 9:17 Mobile 83:10 model 11:15 12:2,12 13:9 13:12,15,21 14:2,8 42:16 42:19,24 63:4 63:12,19,23 80:1,2 109:16 109:17,22 110:1,12,18 110:19 118:6 118:9 modeling 12:8 12:17 13:8 117:5 models 70:8 105:16 moment 115:20 money 61:12 75:3 99:18 103:12,17
69:22 70:5,10 76:12 79:11 80:5,12 88:22 94:12 100:20 101:24 102:22 102:24 103:21 105:23 106:6 106:14 109:14 111:19 113:11 113:13,17 114:16 121:9 122:6,9 134:22 137:23 138:1 levels 14:4,7 15:18 16:3,9 16:18 17:5 23:4,13 25:12 25:15 26:10 26:18,21 37:20 46:21 48:12 52:1 67:14 68:15	39:15 41:23 82:1,3,6 literature 69:3 litigation 17:15 27:14 28:7 38:15 47:4 48:3,6 50:2,7 81:20,22 82:2 little 125:4 live 64:17 105:5 lives 65:2 living 55:4 LLC 7:15 LLP 1:14 2:12 locate 56:22 81:22 located 44:15 66:4 85:18 location 92:3 93:17 locations 45:9 62:15 69:21 97:23,24	magnitude 11:20 Magnolia 2:4 maiden 41:16 main 2:9 46:12 46:16 mainly 90:10 majority 30:23 make 6:14,16 34:17 54:9 67:4 81:3 82:4 85:3,5 95:15 107:16 138:24 139:4 141:5 makes 124:3 134:8 making 28:8 135:1 139:2 Malen 1:17 144:9 management 8:9 61:1,2 manager 60:11	9:2,4 28:7 61:11 maximum 88:20 Maxwell 32:19 32:21,23 may 3:10 43:22 45:13 86:13 87:7 93:2 114:19 115:3 127:2 133:10 141:17,18 maybe 125:19 126:5 mean 14:19 20:17 28:4,17 28:18 30:16 31:21 55:22 56:9 63:24 67:12 79:10 84:9 90:7 92:15 95:10 99:21 103:1	134:18 merits 95:18 message 78:10 80:17 messages 78:1 Metals 76:10 meter 31:12 method 15:4,6 26:6 139:19 methods 84:4 Michael 37:1 micrograms 14:17 24:24 25:1 27:4,9 31:14 middle 24:22 128:23,23 Mid-1990s 76:20 might 28:3 34:10 42:14 54:10 62:8 67:7 81:6,7	Mo 9:17 Mobile 83:10 model 11:15 12:2,12 13:9 13:12,15,21 14:2,8 42:16 42:19,24 63:4 63:12,19,23 80:1,2 109:16 109:17,22 110:1,12,18 110:19 118:6 118:9 modeling 12:8 12:17 13:8 117:5 models 70:8 105:16 moment 115:20 money 61:12 75:3 99:18 103:12,17 122:22 124:1
69:22 70:5,10 76:12 79:11 80:5,12 88:22 94:12 100:20 101:24 102:22 102:24 103:21 105:23 106:6 106:14 109:14 111:19 113:11 113:13,17 114:16 121:9 122:6,9 134:22 137:23 138:1 levels 14:4,7 15:18 16:3,9 16:18 17:5 23:4,13 25:12 25:15 26:10 26:18,21 37:20 46:21 48:12 52:1	39:15 41:23 82:1,3,6 literature 69:3 litigation 17:15 27:14 28:7 38:15 47:4 48:3,6 50:2,7 81:20,22 82:2 little 125:4 live 64:17 105:5 lives 65:2 living 55:4 LLC 7:15 LLP 1:14 2:12 locate 56:22 81:22 located 44:15 66:4 85:18 location 92:3 93:17 locations 45:9 62:15 69:21	magnitude 11:20 Magnolia 2:4 maiden 41:16 main 2:9 46:12 46:16 mainly 90:10 majority 30:23 make 6:14,16 34:17 54:9 67:4 81:3 82:4 85:3,5 95:15 107:16 138:24 139:4 141:5 makes 124:3 134:8 making 28:8 135:1 139:2 Malen 1:17 144:9 management 8:9 61:1,2	9:2,4 28:7 61:11 maximum 88:20 Maxwell 32:19 32:21,23 may 3:10 43:22 45:13 86:13 87:7 93:2 114:19 115:3 127:2 133:10 141:17,18 maybe 125:19 126:5 mean 14:19 20:17 28:4,17 28:18 30:16 31:21 55:22 56:9 63:24 67:12 79:10 84:9 90:7 92:15 95:10 99:21 103:1 124:2 125:24	134:18 merits 95:18 message 78:10 80:17 messages 78:1 Metals 76:10 meter 31:12 method 15:4,6 26:6 139:19 methods 84:4 Michael 37:1 micrograms 14:17 24:24 25:1 27:4,9 31:14 middle 24:22 128:23,23 Mid-1990s 76:20 might 28:3 34:10 42:14 54:10 62:8 67:7 81:6,7 84:22 126:8	Mo 9:17 Mobile 83:10 model 11:15 12:2,12 13:9 13:12,15,21 14:2,8 42:16 42:19,24 63:4 63:12,19,23 80:1,2 109:16 109:17,22 110:1,12,18 110:19 118:6 118:9 modeling 12:8 12:17 13:8 117:5 models 70:8 105:16 moment 115:20 money 61:12 75:3 99:18 103:12,17 122:22 124:1 monitoring
69:22 70:5,10 76:12 79:11 80:5,12 88:22 94:12 100:20 101:24 102:22 102:24 103:21 105:23 106:6 106:14 109:14 111:19 113:11 113:13,17 114:16 121:9 122:6,9 134:22 137:23 138:1 levels 14:4,7 15:18 16:3,9 16:18 17:5 23:4,13 25:12 25:15 26:10 26:18,21 37:20 46:21 48:12 52:1 67:14 68:15	39:15 41:23 82:1,3,6 literature 69:3 litigation 17:15 27:14 28:7 38:15 47:4 48:3,6 50:2,7 81:20,22 82:2 little 125:4 live 64:17 105:5 lives 65:2 living 55:4 LLC 7:15 LLP 1:14 2:12 locate 56:22 81:22 located 44:15 66:4 85:18 location 92:3 93:17 locations 45:9 62:15 69:21 97:23,24	magnitude 11:20 Magnolia 2:4 maiden 41:16 main 2:9 46:12 46:16 mainly 90:10 majority 30:23 make 6:14,16 34:17 54:9 67:4 81:3 82:4 85:3,5 95:15 107:16 138:24 139:4 141:5 makes 124:3 134:8 making 28:8 135:1 139:2 Malen 1:17 144:9 management 8:9 61:1,2 manager 60:11	9:2,4 28:7 61:11 maximum 88:20 Maxwell 32:19 32:21,23 may 3:10 43:22 45:13 86:13 87:7 93:2 114:19 115:3 127:2 133:10 141:17,18 maybe 125:19 126:5 mean 14:19 20:17 28:4,17 28:18 30:16 31:21 55:22 56:9 63:24 67:12 79:10 84:9 90:7 92:15 95:10 99:21 103:1 124:2 125:24 127:20 128:13	134:18 merits 95:18 message 78:10 80:17 messages 78:1 Metals 76:10 meter 31:12 method 15:4,6 26:6 139:19 methods 84:4 Michael 37:1 micrograms 14:17 24:24 25:1 27:4,9 31:14 middle 24:22 128:23,23 Mid-1990s 76:20 might 28:3 34:10 42:14 54:10 62:8 67:7 81:6,7 84:22 126:8 Miller 21:12	Mo 9:17 Mobile 83:10 model 11:15 12:2,12 13:9 13:12,15,21 14:2,8 42:16 42:19,24 63:4 63:12,19,23 80:1,2 109:16 109:17,22 110:1,12,18 110:19 118:6 118:9 modeling 12:8 12:17 13:8 117:5 models 70:8 105:16 moment 115:20 money 61:12 75:3 99:18 103:12,17 122:22 124:1
69:22 70:5,10 76:12 79:11 80:5,12 88:22 94:12 100:20 101:24 102:22 102:24 103:21 105:23 106:6 106:14 109:14 111:19 113:11 113:13,17 114:16 121:9 122:6,9 134:22 137:23 138:1 levels 14:4,7 15:18 16:3,9 16:18 17:5 23:4,13 25:12 25:15 26:10 26:18,21 37:20 46:21 48:12 52:1 67:14 68:15 69:10 71:1	39:15 41:23 82:1,3,6 literature 69:3 litigation 17:15 27:14 28:7 38:15 47:4 48:3,6 50:2,7 81:20,22 82:2 little 125:4 live 64:17 105:5 lives 65:2 living 55:4 LLC 7:15 LLP 1:14 2:12 locate 56:22 81:22 located 44:15 66:4 85:18 location 92:3 93:17 locations 45:9 62:15 69:21 97:23,24 long 114:21	magnitude 11:20 Magnolia 2:4 maiden 41:16 main 2:9 46:12 46:16 mainly 90:10 majority 30:23 make 6:14,16 34:17 54:9 67:4 81:3 82:4 85:3,5 95:15 107:16 138:24 139:4 141:5 makes 124:3 134:8 making 28:8 135:1 139:2 Malen 1:17 144:9 management 8:9 61:1,2 manager 60:11 managing 61:4 Manny 9:17	9:2,4 28:7 61:11 maximum 88:20 Maxwell 32:19 32:21,23 may 3:10 43:22 45:13 86:13 87:7 93:2 114:19 115:3 127:2 133:10 141:17,18 maybe 125:19 126:5 mean 14:19 20:17 28:4,17 28:18 30:16 31:21 55:22 56:9 63:24 67:12 79:10 84:9 90:7 92:15 95:10 99:21 103:1 124:2 125:24	134:18 merits 95:18 message 78:10 80:17 messages 78:1 Metals 76:10 meter 31:12 method 15:4,6 26:6 139:19 methods 84:4 Michael 37:1 micrograms 14:17 24:24 25:1 27:4,9 31:14 middle 24:22 128:23,23 Mid-1990s 76:20 might 28:3 34:10 42:14 54:10 62:8 67:7 81:6,7 84:22 126:8	Mo 9:17 Mobile 83:10 model 11:15 12:2,12 13:9 13:12,15,21 14:2,8 42:16 42:19,24 63:4 63:12,19,23 80:1,2 109:16 109:17,22 110:1,12,18 110:19 118:6 118:9 modeling 12:8 12:17 13:8 117:5 models 70:8 105:16 moment 115:20 money 61:12 75:3 99:18 103:12,17 122:22 124:1 monitoring
69:22 70:5,10 76:12 79:11 80:5,12 88:22 94:12 100:20 101:24 102:22 102:24 103:21 105:23 106:6 106:14 109:14 111:19 113:11 113:13,17 114:16 121:9 122:6,9 134:22 137:23 138:1 levels 14:4,7 15:18 16:3,9 16:18 17:5 23:4,13 25:12 25:15 26:10 26:18,21 37:20 46:21 48:12 52:1 67:14 68:15 69:10 71:1 79:13,15,20 79:24 80:2,3	39:15 41:23 82:1,3,6 literature 69:3 litigation 17:15 27:14 28:7 38:15 47:4 48:3,6 50:2,7 81:20,22 82:2 little 125:4 live 64:17 105:5 lives 65:2 living 55:4 LLC 7:15 LLP 1:14 2:12 locate 56:22 81:22 located 44:15 66:4 85:18 location 92:3 93:17 locations 45:9 62:15 69:21 97:23,24 long 114:21 longer 41:7,12	magnitude 11:20 Magnolia 2:4 maiden 41:16 main 2:9 46:12 46:16 mainly 90:10 majority 30:23 make 6:14,16 34:17 54:9 67:4 81:3 82:4 85:3,5 95:15 107:16 138:24 139:4 141:5 makes 124:3 134:8 making 28:8 135:1 139:2 Malen 1:17 144:9 management 8:9 61:1,2 manager 60:11 managing 61:4 Manny 9:17 manufacturing	9:2,4 28:7 61:11 maximum 88:20 Maxwell 32:19 32:21,23 may 3:10 43:22 45:13 86:13 87:7 93:2 114:19 115:3 127:2 133:10 141:17,18 maybe 125:19 126:5 mean 14:19 20:17 28:4,17 28:18 30:16 31:21 55:22 56:9 63:24 67:12 79:10 84:9 90:7 92:15 95:10 99:21 103:1 124:2 125:24 127:20 128:13	134:18 merits 95:18 message 78:10 80:17 messages 78:1 Metals 76:10 meter 31:12 method 15:4,6 26:6 139:19 methods 84:4 Michael 37:1 micrograms 14:17 24:24 25:1 27:4,9 31:14 middle 24:22 128:23,23 Mid-1990s 76:20 might 28:3 34:10 42:14 54:10 62:8 67:7 81:6,7 84:22 126:8 Miller 21:12	Mo 9:17 Mobile 83:10 model 11:15 12:2,12 13:9 13:12,15,21 14:2,8 42:16 42:19,24 63:4 63:12,19,23 80:1,2 109:16 109:17,22 110:1,12,18 110:19 118:6 118:9 modeling 12:8 12:17 13:8 117:5 models 70:8 105:16 moment 115:20 money 61:12 75:3 99:18 103:12,17 122:22 124:1 monitoring 44:20 57:11
69:22 70:5,10 76:12 79:11 80:5,12 88:22 94:12 100:20 101:24 102:22 102:24 103:21 105:23 106:6 106:14 109:14 111:19 113:11 113:13,17 114:16 121:9 122:6,9 134:22 137:23 138:1 levels 14:4,7 15:18 16:3,9 16:18 17:5 23:4,13 25:12 25:15 26:10 26:18,21 37:20 46:21 48:12 52:1 67:14 68:15 69:10 71:1 79:13,15,20 79:24 80:2,3 83:9,23 84:6	39:15 41:23 82:1,3,6 literature 69:3 litigation 17:15 27:14 28:7 38:15 47:4 48:3,6 50:2,7 81:20,22 82:2 little 125:4 live 64:17 105:5 lives 65:2 living 55:4 LLC 7:15 LLP 1:14 2:12 locate 56:22 81:22 located 44:15 66:4 85:18 location 92:3 93:17 locations 45:9 62:15 69:21 97:23,24 long 114:21 longer 41:7,12 41:18 look 11:2 20:23	magnitude 11:20 Magnolia 2:4 maiden 41:16 main 2:9 46:12 46:16 mainly 90:10 majority 30:23 make 6:14,16 34:17 54:9 67:4 81:3 82:4 85:3,5 95:15 107:16 138:24 139:4 141:5 makes 124:3 134:8 making 28:8 135:1 139:2 Malen 1:17 144:9 management 8:9 61:1,2 manager 60:11 managing 61:4 Manny 9:17 manufacturing 87:17	9:2,4 28:7 61:11 maximum 88:20 Maxwell 32:19 32:21,23 may 3:10 43:22 45:13 86:13 87:7 93:2 114:19 115:3 127:2 133:10 141:17,18 maybe 125:19 126:5 mean 14:19 20:17 28:4,17 28:18 30:16 31:21 55:22 56:9 63:24 67:12 79:10 84:9 90:7 92:15 95:10 99:21 103:1 124:2 125:24 127:20 128:13 133:3,6,19 135:17	134:18 merits 95:18 message 78:10 80:17 messages 78:1 Metals 76:10 meter 31:12 method 15:4,6 26:6 139:19 methods 84:4 Michael 37:1 micrograms 14:17 24:24 25:1 27:4,9 31:14 middle 24:22 128:23,23 Mid-1990s 76:20 might 28:3 34:10 42:14 54:10 62:8 67:7 81:6,7 84:22 126:8 Miller 21:12 29:22 74:20 74:21	Mo 9:17 Mobile 83:10 model 11:15 12:2,12 13:9 13:12,15,21 14:2,8 42:16 42:19,24 63:4 63:12,19,23 80:1,2 109:16 109:17,22 110:1,12,18 110:19 118:6 118:9 modeling 12:8 12:17 13:8 17:5 models 70:8 105:16 moment 115:20 money 61:12 75:3 99:18 103:12,17 122:22 124:1 monitoring 44:20 57:11 monitors 44:11 44:23 45:3
69:22 70:5,10 76:12 79:11 80:5,12 88:22 94:12 100:20 101:24 102:22 102:24 103:21 105:23 106:6 106:14 109:14 111:19 113:11 113:13,17 114:16 121:9 122:6,9 134:22 137:23 138:1 levels 14:4,7 15:18 16:3,9 16:18 17:5 23:4,13 25:12 25:15 26:10 26:18,21 37:20 46:21 48:12 52:1 67:14 68:15 69:10 71:1 79:13,15,20 79:24 80:2,3	39:15 41:23 82:1,3,6 literature 69:3 litigation 17:15 27:14 28:7 38:15 47:4 48:3,6 50:2,7 81:20,22 82:2 little 125:4 live 64:17 105:5 lives 65:2 living 55:4 LLC 7:15 LLP 1:14 2:12 locate 56:22 81:22 located 44:15 66:4 85:18 location 92:3 93:17 locations 45:9 62:15 69:21 97:23,24 long 114:21 longer 41:7,12 41:18	magnitude 11:20 Magnolia 2:4 maiden 41:16 main 2:9 46:12 46:16 mainly 90:10 majority 30:23 make 6:14,16 34:17 54:9 67:4 81:3 82:4 85:3,5 95:15 107:16 138:24 139:4 141:5 makes 124:3 134:8 making 28:8 135:1 139:2 Malen 1:17 144:9 management 8:9 61:1,2 manager 60:11 managing 61:4 Manny 9:17 manufacturing	9:2,4 28:7 61:11 maximum 88:20 Maxwell 32:19 32:21,23 may 3:10 43:22 45:13 86:13 87:7 93:2 114:19 115:3 127:2 133:10 141:17,18 maybe 125:19 126:5 mean 14:19 20:17 28:4,17 28:18 30:16 31:21 55:22 56:9 63:24 67:12 79:10 84:9 90:7 92:15 95:10 99:21 103:1 124:2 125:24 127:20 128:13 133:3,6,19	134:18 merits 95:18 message 78:10 80:17 messages 78:1 Metals 76:10 meter 31:12 method 15:4,6 26:6 139:19 methods 84:4 Michael 37:1 micrograms 14:17 24:24 25:1 27:4,9 31:14 middle 24:22 128:23,23 Mid-1990s 76:20 might 28:3 34:10 42:14 54:10 62:8 67:7 81:6,7 84:22 126:8 Miller 21:12 29:22 74:20	Mo 9:17 Mobile 83:10 model 11:15 12:2,12 13:9 13:12,15,21 14:2,8 42:16 42:19,24 63:4 63:12,19,23 80:1,2 109:16 109:17,22 110:1,12,18 110:19 118:6 118:9 modeling 12:8 12:17 13:8 117:5 models 70:8 105:16 moment 115:20 money 61:12 75:3 99:18 103:12,17 122:22 124:1 monitoring 44:20 57:11 monitors 44:11

			<u> </u>		
Montgomery	100:19	76:7,8	130:10 133:16	63:20 65:7	49:5 57:15
134:14,15	M-O-R-I-K-A		objection 6:8	67:11 68:3	63:20 64:24
month 19:10	43:24	25:16,17	12:23 104:24	70:11 71:10	70:19 72:13
months 65:12	43.24	42:15 46:23	128:1 129:20		
75:16 88:15	i <b>b</b> .t		objections 5:5	71:13,17,20	74:4 76:17
	N	49:23 79:24		72:1,22 73:6	78:1,10,11
132:16 138:7	N 2:1 3:1	80:1 84:16	objective 22:11	73:13 74:19	79:3,10,18,21
more 8:1 15:1	name 7:8,14	86:15 115:9	91:8,20	76:15 77:4	82:16 97:24
29:1,2 33:2	9:21 29:9,13	new 9:19 33:15	objectives	78:19 79:4,8,9	100:12 101:2
47:20 52:11	30:1,16 40:1	60:10 85:20	106:19 120:12	80:6,9,21	105:18 106:5
59:15 64:4	41:13,16	85:24 86:15	obstruct 6:5	81:23 82:8,20	107:15,15,16
67:9 103:17	49:10 60:12	86:17	obtain 19:15	83:7,22 84:8	110:1,13,14
106:20,20	60:13 65:5,9	News 53:17	46:23	84:20 85:17	111:21 112:2
137:6,16	81:13,16	54:1 134:13	Obviously	85:22 86:2,7	114:10 115:8
138:2	86:22 92:12	newspaper 3:12	29:20 34:16	87:3,14,24	120:1,18
Morgan 43:21	92:22,22	4:6,7 53:8	occasions 115:2	88:6,9 89:1,8	123:17 134:2
Morikawa	<sup>1</sup> 134:19	56:14 134:12	136:11	89:23 90:1,6	135:6 139:14
43:24	named 92:19	136:5	occur 33:7	90:15,22 91:3	ones 55:21
most 25:15 79:3		next 24:21 31:8	56:21	92:5 94:10	ongoing 68:21
move 58:24	29:3,16 30:8	32:2 50:20	occurred 45:23	95:2 96:12,16	only 18:10
102:21 110:21	30:21	87:3 91:3,9	October 1:9 8:3	96:20 97:6,24	21:14 64:24
Moving 96:20	NASH 2:7	121:15 122:15	8:5,5,17,22	98:10,19	66:23 74:17
much 36:21	nation 76:3	132:8	115:24	99:21 100:3	75:17 76:16
75:3,6 80:16	natural 23:9,12	nine 33:24 34:3	off 28:5 126:5	100:11,24	78:11 113:15
96:10 106:17	93:3	87:6 95:22	137:18	101:9,19	114:16 132:16
120:2 126:3	nature 61:16	none 55:17	offer 19:16	102:7 103:6	onto 52:20
137:15	126:9	136:21	59:8 99:18	102:7 103:8	on-site 42:5,7
mullman 2:3		norm 25:19	100:4		42:12 77:2
3:4 5:15 6:13	Neal 40:17 60:8	normal 5:17		106:11,22	
	86:23		offered 59:6	107:6,10,23	83:10
6:18,22 20:19	necessarily	normally 83:11	126:13 130:20	108:5,16	operated 9:8
21:3,6 26:14	138:1	North 2:9 40:13	134:21	109:3,7 110:3	76:9
34:10,12 35:9	necessary	northeast 32:8	office 74:18	111:23 112:4	operating
36:1,3 49:15	11:14 63:11	Notary 1:18	90:4	113:21 114:21	38:23 39:2
49:20 53:15	105:15 109:24	142:18	offices 1:13	115:1,7,12,22	40:13
54:7,21 56:1,8	118:3,6 141:5	note 12:10 50:5	off-site 9:5,6	116:8,22	operation
56:15 59:1,5	need 5:20 34:16	87:5	76:24 101:20	117:3,19	47:18 55:4
73:2 77:9,14	48:18 49:4	notebook 119:2	ogletree 2:7,8	118:8,13,18	operations
78:7,18 80:20	51:5,7 52:14	<b>noted</b> 88:10	18:14	119:10,18	40:10,16 60:8
81:2,7,9 82:5	53:6 105:21	109:13 141:11	<b>Oh</b> 58:16	120:3 121:15	61:14 75:15
82:9,11,22	116:2	142:9	124:23 129:1	122:13,15	75:17 88:12
83:4 84:22	needed 91:16	notes 35:22	Okay 7:8,23	123:18 124:2	opinion 51:2,9
85:3,11 86:8	114:13	nothing 58:6,9	8:15 9:15	124:19 125:4	51:10 59:21
86:20 89:9,12	negotiates	67:9	11:22 15:21	125:11,16,21	59:24 67:6
89:16 92:4,16	105:3	notice 89:17	16:4 17:8	126:15,19	68:8 70:19
92:18 94:1	negotiations	noticed 106:1	19:19,21,24	127:14 128:12	72:24 74:4
96:21 97:2	74:7	notwithstanding	20:9,23 21:17	128:17 129:15	113:20
99:17 100:2	NEIC 3:10	130:22	21:23 22:9	130:4 131:2,8	options 96:4,17
101:12 102:6	13:18,19 15:9	November 7:1	23:1 24:5 25:5	131:17 132:8	Oral 1:12
104:21 105:3	15:13,13	7:18 8:16,18	25:21 26:20	133:2 134:5,8	order 6:11
105:8 107:5	. 20:14 21:11	101:13 144:10	29:1,4,7,12,16	135:3 136:1	11:20 33:3,4
107:11,19	21:18 31:7	number 10:5	29:24 30:15	136:13,23	33:16,16
108:16,18	35:15 73:24	20:3,13 21:13	32:2,21 33:3	137:4,14	83:17 86:3
	74:3 119:23	24:3 47:19	34:6 35:10.19	138:3,6,9,16	87:12,13
111:6 114:2	120:1,8,11,13	59:16 64:3,22	36:9 37:7,14	138:21 139:4	116:23 117:1
115:13,17		70:8 72:3.6	38:8 40:15,21	139:7,20	Orders 47:16
117:18 118:21	120:18 121:5	74:16 92:9	41:4,23 43:4	old 37:21 66:4	original 141:14
119:13,18,19			44:16 46:2	86:15,17	originate
120:10,14	122:17 123:19	135:12 136:14			
	123:22 124:3		47:20 48:7,22	93:20	131:12
121:20 124:10	124:12,16,18	numerous 23:7	49:3,11 50:4	once 92:15 97:3	originated
126:22 127:17	125:3,7,13,15	_	50:13,20 51:2	102:20 126:23	121:1
127:22 128:11	125:21 126:4	0	51:9,11 52:7	136:13	Orr 136:9,10
129:24 130:14	126:8 127:10	object 35:4	53:2,8 54:2,4	one 10:23 12:8	137:22
133:20.21	127:12 128:7	80:13 99:9	55:17,21	14:8 25:18	OSHA 61:15,19
134:11 136:4	131:23 132:1	104:19 107:1	58:24 59:10	26:8 30:15	61:23
139:20	<b>NEICs</b> 91:19	113:12,16	60:22 61:22	31:6 33:1,2	other 23:6
			67.71 62.14	25.12 40.4 24	21.10.22.16
must 32:7	neighborhood	114:16 117:14	62:21 63:14	35:13 48:4,24	31:10 32:16

33:10 37:11	oxide 38:2	47:11 48:9	123:1,19	personnel	54:14
37:16 38:16	OMGC 50.2	51:14,17,21	125:24	95:16,18 99:2	position 25:17
43:8 49:22	P	52:3 62:12	Pb 91:14	124:20,22,23	33:13 64:9,10
55:14 60:7	P 2:1,1,3	64:15,18	penalties 62:4,6	134:2	64:11 78:12
63:14 68:1	PA 124:21	68:14,23	pending 9:18	persons 105:14	78:15 80:23
70:19 74:5,16	page 3:2,8 4:2	69:16 70:6	47:4 74:13	persuasive	86:14,18
75:11,23 76:4	22:5 24:21	79:13 90:24	Pennsylvania	34:16	101:23 104:8
76:15 84:15	31:8,9 35:23	91:6,14 96:5	1:15,19,22	perused 37:2	126:7 131:18
87:22 93:2,8	50:6,12,20	96:18 97:14	2:13 11:13	pervasive 23:10	positions 7:24
96:10,12	54:16,17	98:14 99:23	60:23	93:3	18:9
97:11 99:14	56:24 79:1,2	100:6 101:24	people 27:19	Philadelphia	possibilities
107:15 109:18	82:20 83:2,3,6	104:18 105:11	28:23 30:9	1:15,22 2:13	92:9,13
123:14 135:3	87:2,3,6,12,15	113:18 123:24	34:19 66:20	60:14	possible 18:17
135:4,12	89:17 91:3,9	128:14 129:7	93:7,9 104:16	Phoenix 36:16	32:8 37:11
136:17,18,19	96:2 108:5	129:19 130:9	112:20 138:15	phonetic	38:1 93:4 96:3
136:21,24	109:12 112:8	130:19,22	<b>Pep</b> 9:17	121:11	96:17
otherwise	113:22 114:1	131:5 138:10	per 12:20,23	phrase 79:14	postdates 122:9
31:17	117:3 121:15	part 8:14 30:15	13:3 14:17	phrased 124:12	Poteat 29:19
ought 25:19	121:22 126:23	38:14 54:4,20	19:12,20	physically	74:22
105:1 123:17	128:17,19,24	72:14 82:5	20:11 24:1,24	112:1	Poteat's 38:14
ourselves	131:8 136:7	86:1 133:14	25:1,11,14	picture 119:23	73:7,18
137:22	143:4	133:19 135:9	27:5,9 31:14	120:1	potentially 10:6
out 5:24 6:2	pages 21:15	participated	31:16,18 32:6	pile 49:12	102:19 135:12
22:16,20	87:6,7 142:4	39:17	35:1 36:10	Pitts 29:12,14	<b>ppm</b> 97:20 113:13 114:14
23:24 55:1	paid 47:10	participating 135:11	48:17,20 50:17.23	place 44:23 45:22	113:13 114:14
57:17 62:17	61:13,20 62:7	particular	50:17,23 51:19 52:12	placed 138:14	predecessor
67:13 69:15 77:21 90:23	paint 24:9,11	93:17	59:7 80:11	places 76:15	55:11
91:20 98:15	24:16 Dallies 60:16	parties 10:6,7	97:8,13,17	plaintiff 1:4 2:6	prefer 80:11
102:16 122:19	Pallies 60:16   Palmetto 81:11	32:17 35:11	100:20 101:2	29:21	Preliminary
122:22 124:6	81:14	135:13	101:7 104:4,9	plaintiff's 48:3	82:13
outrageous	paper 21:16	Partlow 18:14	106:8,12,24	48:5 85:6	preparation
53:21 54:5,23	paragraph 55:9	partner 56:14	109:10,13	110:23 119:7	42:3
56:2 58:17,19	78:24 79:8	parts 12:20,23	113:11,16	plan 19:7,10	prepare 15:22
outside 12:9	80:9 83:8 88:9	13:2 19:12,20	116:11,14,17	34:20 35:12	presence 93:9
43:16,19,20	97:7 100:12	20:11 24:1	117:8,13	36:7 42:4	97:12 98:4
67:21 68:1	102:9 108:8	25:10,14	121:7 122:7	81:19 95:19	present 10:15
over 19:24 20:4	109:12 112:10	31:18 35:1	134:22 136:16	117:6 131:14	18:7 92:3
28:21 31:11	112:14 113:4	36:10 48:17	percent 25:2	132:14 133:13	presented
43:7 47:24	114:4,5,5,6	48:20 50:16	percentage	plans 36:4	97:18 114:11
48:5,16 61:20	116:9,10	50:23 51:19	20:5,8	65:21	presume 90:7
62:4 88:14	119:20 121:16	52:12 59:7	perfectly	plant 38:19	presumed 89:7
92:10,11	122:1 128:24	80:11 97:8,13	130:23	42:5 44:4,8	prevalence
93:14 122:8	131:9 132:9	97:17 100:20	perform 17:24	61:9 88:12	92:9
137:23 141:4	parameter 64:2	101:2,6 104:4	33:12 98:16	131:12	prevented
overly 11:19	110:2,3,14	104:9 106:8	112:2	plants 9:9	111:16
104:10 105:10	P	106:12,24	Performance	play 59:23	previous 32:11 55:15 73:14
105:15 106:12		109:10,13	85:20	62:19	
overprotective	pardon 9:5	113:10,16	performed 11:6 76:17 83:16	please 91:12	74:6,7
104:16	19:9 57:4,11	116:11,14,17 117:8,13	95:21 104:11	111:10 115:21 130:3 141:4,8	previously 32:9 34:4 74:18
own 59:15 65:24 67:11	park 9:11 11:17	121:7 122:7	104:12	point 5:24	90:5
76:17 78:16	11:19 12:6,11	134:22 136:15	perhaps 11:20	28:20 106:16	price 20:10
80:24 93:8	12:16,24 13:4	party 32:13,15	113:21	110:16 112:22	prick 27:6,7
111:24	13:14,22 14:5 15:11,14,18	91:15,17,21	period 19:14	113:6 123:3	principal
owned 9:6	16:21 17:10	123:1,2,8	57:3 62:5,7	130:23 132:15	125:14
38:12 76:9	17:20 18:18	125:22 134:6	133:9	pointed 6:2	prior 39:21
owner 32:19	19:2,22 22:12	past 33:23	permission	points 20:3	45:20 49:23
74:7	22:17 26:11	47:15 57:9	67:7	97:20	52:15 74:13
owners 28:13	26:22 27:16	59:8 72:14	permit 64:5	poliakoff 2:2	74:14 75:16
73:14,14	27:23 28:1	88:15	persistent	3:9 53:18	82:2,18,19
owns 24:5 30:7	32:7,22 33:6,9	pathway 98:5	98:12	54:24	113:7 118:4
32:22,24	33:14,22	pathways 68:9	persists 131:13	political 75:6	123:5 132:22
38:17 59:13	37:15 44:12	Paul 52:9	Personality	75:10	132:24
67:12	46:15,22	pay 72:4,8	124:21	poole 2:2 29:7,8	priority 83:11
67:12		pay 72:4,8	124:21	poole 2:2 29:7,8	<b>priority</b>   83:11

142.77   problem 6:19   protection 16:7   special 7:16   13:6   special 7:16   special 7:						
privileged 6:3.7   probably 24:12   336:15   42:28   336:29   39:23   34:27   29:14.17.19   28:66   protective   11:24 63:7.9   44:23 84:7   104:10 105:10   44:17   38:13.15   106:13   106:15   44:19   44:19   105:13   55:97.224   48:15 503.6   12:34   106:13	108-0 20 22	142.7	131-21 24	recall 7:16 13:6	referencing	53-21.85-12
				_		
85:15.114-7   61:8   7   7   7   7   7   7   7   7   7						
Problem 6:19						
28.6   protective   1124 637.9   duit 60.3   39.6 43.8 45.4   reflect 8.1   110.4 111.5   118.18.12   129.12   106.13   protocol 44.17   44.19   125.9   128.10   129.4.11   provide 80.3   77.24 79.14   63.15 64.3.2   regard 86.13   16.2   129.4.11   provide 80.3   77.24 79.14   63.15 64.3.2   regard 86.13   regard 86.13   16.2   129.4.11   provide 80.3   79.16 88.10   79.15 85.7   79.16 88.10   79.16 88.10   79.15 80.7   79.16 88.10   79.16 88.10   79.15 80.7   79.16 88.10   79.16 88.1						
Proceed 17:19   R6:79   123:23   103:13.15   136:14   1	1	l				
14:23 84:7   10:10 105:10   10:10					-	
					1	
102:112				ľ		
10371 106:16	E				1	
1003.7 106.16				l '		1
123:123:123:123:123:123:123:123:123:123:						
125:9   128:10   109:10   17				!		
1994-91   1999   1971-12   1918-18   190-15   1918-18   190-15   1919-19   1971-19						ſ
proceeding   provided 42:20   106:17   57:19 58:7   quoted 136:14   81:18   63:10 78:21   produce 82:6   proving 123:22   produce 82:6   proving 123:22   produce 82:6   proving 123:22   produce 82:17:24   14:18   82:17 94   16:97 1:22   producing   98:22 136:15   75:19   142:18   product 61:11   production   16:6   37:5 88:6.11   88:13.20.21   14:12 16:1   69:9   11:17   purchase 30:16   program 43:18   84:13.98:23   purchased 30:9 programs 61: 31:273:4.10   progress 61: 31:273:4.10   progress 61: 31:273:4.10   propose 64:6   47:14   propose 64:6   purpose 64:6   47:14   propose 64:6   purpose 64:6   47:14   36:24   16:22 36:24   46:11   purpose 64:6   purpose 64:6   purpose 65:17   propose 14: 48:19 88:23   propose 10:20   79:11:15   99:10 103:4   16:22 73:7 74:8   90:20 93:22   72:11:15   90:10 23:11   14:12   13:22   13:19   13:1						
106:17   process 57:14   provides 17:24   provides 17:24   produce 82:6   produce 82:6   produce 82:2   public 1:18   R2:143:2.2   R2:1790:4   producion general gen		119:9 137:12	91:13 100:15	73:12 75:21	78:2,2 122:14	remove 139:1
Process 57:14   94:11   79:10   73:10   79:11   79:10   79:12   79:10   79:11   79:1	proceeding	provided 42:20	108:8 120:20	76:18,20		removed 33:22
63:10-78:21   provides 17:24   produce 82:6   produce 82:2   producing 98:22 136:15   142:18   79:4   138:10 133:11   137:16	106:17	57:19 58:7	quoted 136:14	81:16 82:18	Regional 22:1	138:9
63:10-78:21   provides 17:24   produce 82:6   produce 82:2   producing 98:22 136:15   142:18   79:4   138:10 133:11   137:16	process 57:14	94:11	quotes 136:7	84:11,16	120:20	removing
Produce 82:6   Proving 123:22   Producing   Produced 82:2   Producing   Proving 123:22   Product 61:11   Production   16:6   Production   16:6   Production   Production   Production   Production   Proving 123:22   Professional   Professional   Professional   Program 43:18   Professional   Program 43:18   Pr		provides 17:24			Registered 1:17	
Producing   Producing   Production   Production   Production   16:6   Professional   1:17   Purchase 30:16   Professional   1:17   Purchase 30:16   Program 43:18   84:13 98:23   Program 56:5   Professional 1   1:17   Purchase 30:16   Program 56:5   Professional 1   1:17   Purchase 30:16   Program 56:5   Professional 1   1:17   Purchase 30:16   Professional 1   1:17   Professional 1   1:17   Purchase 30:16   Professional 1   1:17   Professional 2   Professional 3   Rati 19:21   Professional 2   Rati 19:21   Professional 3   Rati 19:22   Professional 2   Rati 19:21   Rati 1		proving 123:22	R			renewed 82:4
82:17:90:44   16:9 71:22   Froducing   99:4.11,20   Topological   142:18   142:18   142:18   16:6   publication   16:6   published   58:13.20,22   14:12 16:1   141:2 16:1   141:2 16:1   141:2 16:1   141:15   133:21   141:15   133:20   141:2 16:1   141:15   133:20   141:15   133:20   141:15   133:20   141:15   133:20   141:15   133:20   141:15   133:20   141:15   133:20   141:15   133:20   141:15   133:20   141:15   133:20   141:15   133:20   141:15   133:20   141:15   133:20   141:15   133:20   141:15   133:20   141:15   133:20   141:15   133:20   141:15   141:1					J 0.	
Production   75:19   142:18   publication   16:6   ran 79:24   135:23 136:11   17:9 21:18,21   130:20   rephrase 26:24   136:22 138:12   28:10 30:6   rephrase 26:24   reange 24:24   reange 24:24						
Total						
product 61:11						
Tange   24:24   136:22   138:12   28:10   30:6   rephrase   26:24   37:5   88:6,11   88:13,20,22   rephrase   30:16   rather   103:14   11:17   properses   30:16   rather   103:14   11:15   receive   47:22   66:16   71:4   12:22   receive   47:22   66:16   71:4   12:22   receive   47:22   66:16   71:4   12:22   report   31:19   ratio   63:18   receive   47:22   66:16   71:4   12:22   receive   47:22   receive   47:24   receive   47:24   receive   47:24   receive   47:24   receive   47:24   receive   47:24   relative   25:2   20:14,18.20   relative   25:2   20:14,18.20   relative   25:2   20:14,18.20   receive   47:24   relative   25:2   20:14,18.20   relative   25:2   20:14,18.20   relative   25:2   20:14,18.20   relative   25:2   20:14,18.20   receive   47:24   relative   25:2   20:14,18.20   relative   25:2   20:14,18.20   relative   25:2   20:14,18.20   receive   47:24   relative   25:2   20:14,18.20   relative   25:2   20:14,18.20   relative   25:2   20:14,18.20   receive   47:24						
37:5 88:6,11						
Resil   Second   Professional   Frather   103:14   14:15   Frequency   14:12   19:21   12:10   13:19						
Professional   69:9   purchase 30:16   131:19   83:11 87:1   108:1   109:1   15:91.21.31.6   109:1   109:1   15:91.21.31.6   109:1   15:91.21.31.6   109:1   15:91.21.31.6   109:1   15:91.21.31.6   109:1   15:91.21.31.6   109:1   109:1   15:91.21.31.6   109:1   15:91.21.31.6   109:1   15:91.21.31.6   109:1   15:91.21.31.6   109:1   15:91.21.31.6   109:1   109:1   15:91.21.31.6   109:1   109:1   15:91.21.31.6   109:1   109:1   15:91.21.31.6   109:1   109:1   15:91.21.31.6   109:1   109:1   15:91.21.31.6   109:1   109:1   15:91.21.31.6   109:1   109:1   15:91.21.31.6   109:1   109:1   15:91.21.31.6   109:1   109:1   15:91.21.31.6   109:1   109:1   15:91.21.31.6   109:1   109:1   15:91.21.31.6   109:1   109:1   109:1   15:91.21.31.6   109:1				_		
1:17					'	
Propgram 43:18   84:13 98:23   purchased 30:9 programs 61:5   progress   73:13   purpose 68:17 projects 16:9 pronounces   102:11,12,16   proporties   125:3   purpose 64:6   65:17   proporties   116:22,24   38:13,16   101:15 107:20   17:17:13   116:22,24   116:23   110:25   116:25	A CONTRACTOR OF THE CONTRACTOR	:				
B4:13 98:23   programs 61:5   progress   111:17 123:4   purpose 68:17   projects 16:9   102:1,12,16   proponunces   125:3   read 32:2 36:24   receiving 85:12   relative 25:2   20:21,24 21:8   21:18,21 31:7   receiving 85:12   relative 25:2   relative 15:7   21:18,21 31:7   receiving 85:12   relative 25:2   relative 15:7   21:18,21 31:7   receiving 85:12   relative 25:2   relative 15:7   21:18,21 31:7   receiving 85:12   relative 15:7   relative 25:2   relative 15:7   21:18,21 31:7   receiving 85:12   relative 15:7   relative 25:2   re						
Programs 61:5   31:2 73:4,10   73:13						
Progress   173:13   purpose 68:17   projects 16:9   102:1,12,16   read 32:2 36:24   read 32:2 36:24   relevance 14:23   48:19,22 49:4   48:1						' .
111:17 123:4   purpose 68:17   reached 47:14   reached 47:14				-	–	
projects   16:9   102:1,12,16   reached   47:14   receiving   85:12   relevance   14:23   43:14,16   read   32:2   36:24   85:14   86:14   86:12   relevant   14:24   48:19,22   49:4   49:7,13,21,24   78:11,22   79:8   recently   82:15   68:16   69:6,9,11   64:13   74:3   81:11,15   84:1   78:11,22   79:8   recognition   139:2,7   84:3,11   88:23   78:13,14   78:13,29   78:23   78:13,14   78:13,29   78:23   78:13,14   78:13,29   78:23   78:13,14   78:13,29   78:13,14   78:13,29   78:13,14   78:13,29   78:13,14   78:13,29   78:13,14   78:13,29   78:13,14   78:13,29   78:13,14   78:13,29   78:13,14   78:13,29   78:13,14   78:13,29   78:13,14   78:13,29   78:13,14   78:13,29   78		1		_		
Pronounces   46:11	i .					
46:11	:					(
properly         25:8         65:17         51:23 56:12         107:23 127:6         rely         38:6 67:19         52:5.8.15           properties         pursuant         44:17         77:19,21,22         recently         82:15         68:1 69:6,9,11         64:13 74:3           38:17 67:8         118:3         put         44:23         put         44:23         put         44:23         114:3,9         8:23         relying         48:23         90:16.18 91:4           29:15,20,22         60:17         P.C 2:7         reading         60:23         106:15,18         remainder         120:11 124:16           32:19 38:9,11         p.m 1:16 85:2         93:14 112:12         129:1         recognized         93:11         97:19 120:8,9           52:20 61:7,9         p.O 2:4,9         129:1         reality         70:9         remedial         83:18,24 90:8         13:23 132:1         reported         18:8,9           70:16,22 71:2         qualified         80:18         77:15         reality         88:29 9:1         76:4 91:18         reported         18:8,9           90:20 93:22         7:21 11:15         really         88:18 107:14         68:22         76:4 91:18         76:4 91:18         reporter         1:17         record	. •					
properties         pursuant         44:17         77:19,21,22         recently         82:15         68:169:69,11         64:13 74:3           30:24 31:1,4         116:22,24         78:11,22 79:8         recess 59:485:1         110:6 138:23         81:11,15 84:1           38:17 67:8         118:3         91:8,10 102:8         recognition         139:2,7         84:3,11 88:23           property 28:13         put 44:23         114:3,9         8:23         relying 48:23         90:16,18 91:4           28:15 29:10         P-A-L-L-I-E-S         127:23 131:1         recognized         93:11         97:19 120:8,9           30:2 31:6         P.C 2:7         reading 60:23         106:15,18         remainder         120:11 124:16           32:19 38:9,11         p.m 1:16 85:2         93:14 112:12         recognizing         55:12         125:21 129:5           38:12.14         140:2         114:19 128:22         70:9         remedial 83:16         129:17 130:7           51:24 52:11         P.O 2:4,9         129:1         real 65:16,17         88:2 99:1         remedial 83:16         129:17 130:7           66:6 67:3         qualified 80:18         reality 8:2         88:2 99:1         remediate         57:3         reported 18:89           90:20 93:22						
30:24 31:1,4   116:22,24   78:11,22 79:8   recess 59:4 85:1   110:6 138:23   81:11,15 84:1     38:17 67:8   118:3   91:8,10 102:8   recognition   139:2,7   84:3,11 88:23     28:15 29:10   P-A-L-L-I-E-S   127:23 131:1   recognized   93:11   97:19 120:8,9     30:2 31:6   P.C 2:7   reading 60:23   106:15,18   remainder   120:11 124:16     32:19 38:9,11   P.O 2:4,9   14:19 128:22   70:9   recollection   83:18,24 90:8   131:23 132:1     52:20 61:7,9   65:4,23 66:2,4   Q   real 65:16,17   reality 8:2   reality 8:2   reality 8:2   reality 8:2   reality 8:2   recommended   98:23   70:9   90:13   reported 18:8,9     70:16,22 71:2   quality 44:22   question 5:6   reality 8:18   98:23   32:7   53:24 57:19     90:20 93:22   7:21 11:15   131:2   record 53:11   remediated   57:3 125:12   55:24 57:19     90:20 93:22   7:21 11:15   131:2   record 53:11   remediation   144:15   remediation   144:15   reported 18:24   75:14   76:4 91:18   reported 18:3   75:12 53:22   75:30:22   98:13   76:49:18   76:4						
18:3						
property 28:13         put 44:23         114:3,9         8:23         relying 48:23         90:16.18 91:4           28:15 29:10         P-A-L-L-I-E-S         127:23 131:1         recognized         93:11         97:19 120:8,9           29:15,20,22         60:17         141:4 142:4         recognized         93:11         97:19 120:8,9           30:2 31:6         P.C 2:7         reading 60:23         106:15,18         remainder         120:11 124:16           32:19 38:9,11         p.m 1:16 85:2         93:14 112:12         recognizing         55:12         125:21 129:5           38:12,14         140:2         114:19 128:22         70:9         remedial 83:16         129:17 130:7           51:24 52:11         P.O 2:4,9         129:1         recollection         83:18,24 90:8         131:23 132:1           52:20 61:7,9         Q         real 65:16,17         48:20 75:14         remediate 57:3         reported 18:8,9           70:16,22 71:2         qualified 80:18         reality 8:2         88:2 99:1         76:4 91:18         reported 18:8,9           90:20 93:22         7:21 11:15         131:2         recommended         remediated         51:23 53:22           98:111:24         19:15 34:17         reason 22:23         54:19 144:5         remediating						
28:15 29:10         P-A-L-L-I-E-S         127:23 131:1         recognize 49:10         67:24 70:4,7         91:19 96:1           29:15,20,22         60:17         141:4 142:4         recognized         93:11         97:19 120:8,9           30:2 31:6         P.C 2:7         reading 60:23         106:15,18         remainder         120:11 124:16           32:19 38:9,11         p.m 1:16 85:2         93:14 112:12         130:21         recognized         120:11 124:16           51:24 52:11         140:2         114:19 128:22         70:9         remedial 83:16         129:17 130:7           51:24 52:11         P.O 2:4,9         129:1         recollection         83:18,24 90:8         131:23 132:1           52:20 61:7,9         p.O 2:4,9         129:1         reality 8:2         88:2 99:1         remediate 57:3         125:12           70:16,22 71:2         qualified 80:18         reality 8:2         88:2 99:1         76:4 91:18         reported 18:8,9           90:20 93:22         7:21 11:15         131:2         recommended         remediated         51:23 53:22           98:1 111:24         19:15 34:17         reason 22:23         54:19 144:5         47:11         144:15           proposal 91:4         38:7 51:8,22         26:16 38:1         record 58:13						1
29:15,20,22		put 44:23			relying 48:23	
30:2 31:6   P.C 2:7   p.m 1:16 85:2   93:14 112:12   recognizing   70:9   remedial 83:16   129:17 130:7						
32:19 38:9,11         p.m 1:16 85:2         93:14 112:12         recognizing         55:12         125:21 129:5           38:12,14         140:2         114:19 128:22         70:9         remedial 83:16         129:17 130:7           51:24 52:11         P.O 2:4,9         129:1         recollection         83:18,24 90:8         131:23 132:1           52:20 61:7,9         real 65:16,17         48:20 75:14         90:13         reported 18:8,9           66:6 67:3         qualified 80:18         reality 8:2         88:2 99:1         76:4 91:18         reporter 1:17           70:16,22 71:2         quality 44:22         realize 77:15         recommended         remediated         51:23 53:22           73:7 74:8         question 5:6         really 8:18         98:23         32:7         53:24 57:19           90:20 93:22         7:21 11:15         131:2         record 53:11         remediated         58:14,16           proposal 91:4         38:7 51:8,22         26:16 38:1         record 58:13         remediation         reporting 36:22           propose 34:4         80:8,14 89:7         122:16,20         recovery 57:10         32:11,13 33:5         49:5 60:11,15           proposed 10:20         104:20 107:2         reasonable         73:10 125:20         91:16 117:6					:	
38:12.14         140:2         114:19 128:22         70:9         remedial 83:16         129:17 130:7           51:24 52:11         P.O 2:4,9         129:1         recollection         83:18,24 90:8         131:23 132:1           52:20 61:7,9         65:4,23 66:2,4         Q         real 65:16,17         48:20 75:14         90:13         reported 18:8,9           66:6 67:3         qualified 80:18         reality 8:2         88:2 99:1         76:4 91:18         reporter 1:17           70:16,22 71:2         quality 44:22         realize 77:15         recommended         remediated         51:23 53:22           73:7 74:8         question 5:6         really 8:18         98:23         32:7         53:24 57:19           90:20 93:22         7:21 11:15         131:2         record 53:11         remediated         58:14,16           98:1 111:24         19:15 34:17         reason 22:23         54:19 144:5         remediation         58:14,16           116:18         67:1,23 76:23         88:18 107:14         68:22         11:6 17:9 32:9         reports 48:24           propose 34:4         80:8,14 89:7         122:16,20         recovery 57:10         32:11,13 33:5         49:5 60:11,15           proposed 10:20         104:20 107:2         reasonable         73:10 125:						
51:24 52:11         P.O 2:4,9         129:1         recollection         83:18,24 90:8         131:23 132:1           52:20 61:7,9         readings 51:12         27:5 30:22         90:13         reported 18:8.9           65:4,23 66:2,4         Q         real 65:16,17         48:20 75:14         remediate 57:3         125:12           70:16,22 71:2         quality 44:22         reality 8:2         88:2 99:1         76:4 91:18         reporter 1:17           70:16,22 71:2         quality 44:22         realize 77:15         recommended         remediated         51:23 53:22           73:7 74:8         question 5:6         really 8:18         98:23         32:7         53:24 57:19           90:20 93:22         7:21 11:15         131:2         record 53:11         remediated         58:14,16           98:1 111:24         19:15 34:17         reason 22:23         54:19 144:5         47:11         144:15           proposal 91:4         38:7 51:8,22         26:16 38:1         records 68:13         remediation         reporting 36:22           116:18         67:1,23 76:23         88:18 107:14         68:22         11:6 17:9 32:9         reports 48:24           proposed 10:20         104:20 107:2         reasonable         73:10 125:20         91:16 117:6         repr						
52:20 61:7,9         readings 51:12         27:5 30:22         90:13         reported 18:8,9           65:4,23 66:2,4         Q         real 65:16,17         48:20 75:14         remediate 57:3         125:12           66:6 67:3         qualified 80:18         reality 8:2         88:2 99:1         76:4 91:18         reporter 1:17           70:16,22 71:2         quality 44:22         realize 77:15         recommended         remediated         51:23 53:22           73:7 74:8         question 5:6         really 8:18         98:23         32:7         53:24 57:19           90:20 93:22         7:21 11:15         131:2         record 53:11         remediating         58:14,16           98:1 111:24         19:15 34:17         reason 22:23         54:19 144:5         47:11         144:15           proposal 91:4         38:7 51:8,22         26:16 38:1         records 68:13         remediation         reporting 36:22           116:18         67:1,23 76:23         88:18 107:14         68:22         11:6 17:9 32:9         reports 48:24           propose 34:4         80:8,14 89:7         122:16,20         recovery 57:10         32:11,13 33:5         49:5 60:11,15           proposed 10:20         104:20 107:2         reasonable         73:10 125:20         91:16 117:6						
65:4,23 66:2,4         Q         real 65:16,17         48:20 75:14         remediate 57:3         125:12           66:6 67:3         qualified 80:18         reality 8:2         88:2 99:1         76:4 91:18         reporter 1:17           70:16,22 71:2         quality 44:22         realize 77:15         recommended         remediate 57:3         125:12           73:7 74:8         question 5:6         really 8:18         98:23         32:7         53:24 57:19           90:20 93:22         7:21 11:15         131:2         record 53:11         remediating         58:14,16           98:1 111:24         19:15 34:17         reason 22:23         54:19 144:5         47:11         144:15           proposal 91:4         38:7 51:8,22         26:16 38:1         records 68:13         remediation         reporting 36:22           116:18         67:1,23 76:23         88:18 107:14         68:22         11:6 17:9 32:9         reporting 36:22           propose 34:4         80:8,14 89:7         122:16,20         recovery 57:10         32:11,13 33:5         49:5 60:11,15           115:1         99:10 103:4         125:7 141:6         57:14 72:12         33:9 71:5         93:15           proposed 10:20         104:20 107:2         reasonable         73:10 125:20         91:16 11		, <b>P.O</b> 2:4,9				
66:6 67:3         qualified 80:18         reality 8:2         88:2 99:1         76:4 91:18         reporter 1:17           70:16,22 71:2         quality 44:22         realize 77:15         recommended         remediated         51:23 53:22           73:7 74:8         question 5:6         really 8:18         98:23         32:7         53:24 57:19           90:20 93:22         7:21 11:15         131:2         record 53:11         remediating         58:14,16           98:1 111:24         19:15 34:17         reason 22:23         54:19 144:5         47:11         144:15           proposal 91:4         38:7 51:8,22         26:16 38:1         records 68:13         remediation         reporting 36:22           116:18         67:1,23 76:23         88:18 107:14         68:22         11:6 17:9 32:9         reporting 36:22           propose 34:4         80:8,14 89:7         122:16,20         recovery 57:10         32:11,13 33:5         49:5 60:11,15           115:1         99:10 103:4         125:7 141:6         57:14 72:12         33:9 71:5         93:15           proposed 10:20         104:20 107:2         reasonable         73:10 125:20         91:16 117:6         representative           16:11,12         117:15 121:13         31:14         reduction         122:3		!	readings 51:12			
66:6 67:3         qualified 80:18         reality 8:2         88:2 99:1         76:4 91:18         reporter 1:17           70:16,22 71:2         quality 44:22         realize 77:15         recommended         remediated         51:23 53:22           73:7 74:8         question 5:6         really 8:18         98:23         32:7         53:24 57:19           90:20 93:22         7:21 11:15         131:2         record 53:11         remediating         58:14,16           98:1 111:24         19:15 34:17         reason 22:23         54:19 144:5         47:11         144:15           proposal 91:4         38:7 51:8,22         26:16 38:1         records 68:13         remediation         reporting 36:22           116:18         67:1,23 76:23         88:18 107:14         68:22         11:6 17:9 32:9         reports 48:24           propose 34:4         80:8,14 89:7         122:16,20         recovery 57:10         32:11,13 33:5         49:5 60:11,15           115:1         99:10 103:4         125:7 141:6         57:14 72:12         33:9 71:5         93:15           proposed 10:20         104:20 107:2         reasonable         73:10 125:20         91:16 117:6         122:3 132:14         25:8 88:12           114:23 132:13         122:21 124:9         reasons 12:9 <t< td=""><td></td><td></td><td></td><td></td><td>l .</td><td>:</td></t<>					l .	:
70:16,22 71:2         quality 44:22         realize 77:15         recommended 98:23         remediated 32:7         53:24 57:19           73:7 74:8         question 5:6         really 8:18         98:23         32:7         53:24 57:19           90:20 93:22         7:21 11:15         131:2         record 53:11         remediating         58:14,16           98:1 111:24         19:15 34:17         reason 22:23         54:19 144:5         47:11         144:15           proposal 91:4         38:7 51:8,22         26:16 38:1         records 68:13         remediation         reporting 36:22           116:18         67:1,23 76:23         88:18 107:14         68:22         11:6 17:9 32:9         reporting 36:22           propose 34:4         80:8,14 89:7         122:16,20         recovery 57:10         32:11,13 33:5         49:5 60:11,15           115:1         99:10 103:4         125:7 141:6         57:14 72:12         33:9 71:5         93:15           proposed 10:20         104:20 107:2         reasonable         73:10 125:20         91:16 117:6         representative           16:11,12         117:15 121:13         31:14         reduction         122:3 132:14         25:8 88:12           114:23 132:13         129:21 130:11         26:8 34:13         Reeves 32:22					i	
73:7 74:8         question 5:6         really 8:18         98:23         32:7         53:24 57:19           90:20 93:22         7:21 11:15         131:2         record 53:11         remediating         58:14,16           98:1 111:24         19:15 34:17         reason 22:23         54:19 144:5         47:11         144:15           proposal 91:4         38:7 51:8,22         26:16 38:1         records 68:13         remediation         reporting 36:22           116:18         67:1,23 76:23         88:18 107:14         68:22         11:6 17:9 32:9         reporting 36:22           propose 34:4         80:8,14 89:7         122:16,20         recovery 57:10         32:11,13 33:5         49:5 60:11,15           115:1         99:10 103:4         125:7 141:6         57:14 72:12         33:9 71:5         93:15           proposed 10:20         104:20 107:2         reasonable         73:10 125:20         91:16 117:6         representative           16:11,12         117:15 121:13         31:14         reduction         122:3 132:14         25:8 88:12           114:23 132:13         129:21 130:11         26:8 34:13         Reeves 32:22         remedy 139:16         14:1 18:12			realize 77:15			51:23 53:22
90:20 93:22         7:21 11:15         131:2         record 53:11         remediating         58:14,16           98:1 111:24         19:15 34:17         reason 22:23         54:19 144:5         47:11         144:15           proposal 91:4         38:7 51:8,22         26:16 38:1         records 68:13         remediation         reporting 36:22           116:18         67:1,23 76:23         88:18 107:14         68:22         11:6 17:9 32:9         reports 48:24           propose 34:4         80:8,14 89:7         122:16,20         recovery 57:10         32:11,13 33:5         49:5 60:11,15           115:1         99:10 103:4         125:7 141:6         57:14 72:12         33:9 71:5         93:15           proposed 10:20         104:20 107:2         reasonable         73:10 125:20         91:16 117:6         representative           16:11,12         117:15 121:13         31:14         reduction         122:3 132:14         25:8 88:12           14:23 132:13         122:21 124:9         reasons 12:9         105:20         Remedies 43:9         represented           134:22         129:21 130:11         26:8 34:13         Reeves 32:22         remedy 139:16         14:1 18:12				98:23	t -	53:24 57:19
98:1 111:24       19:15 34:17       reason 22:23       54:19 144:5       47:11       144:15         proposal 91:4       38:7 51:8,22       26:16 38:1       records 68:13       remediation       reporting 36:22         116:18       67:1,23 76:23       88:18 107:14       68:22       11:6 17:9 32:9       reports 48:24         propose 34:4       80:8,14 89:7       122:16,20       recovery 57:10       32:11,13 33:5       49:5 60:11,15         115:1       99:10 103:4       125:7 141:6       57:14 72:12       33:9 71:5       93:15         proposed 10:20       104:20 107:2       reasonable       73:10 125:20       91:16 117:6       representative         16:11,12       117:15 121:13       31:14       reduction       122:3 132:14       25:8 88:12         114:23 132:13       122:21 124:9       reasons 12:9       105:20       Remedies 43:9       represented         134:22       129:21 130:11       26:8 34:13       Reeves 32:22       remedy 139:16       14:1 18:12				record 53:11	remediating	
proposal         91:4         38:7 51:8,22         26:16 38:1         records         68:13         remediation         reporting         36:22           116:18         67:1,23 76:23         88:18 107:14         68:22         11:6 17:9 32:9         reporting         36:22           propose         34:4         80:8,14 89:7         122:16,20         recovery         57:10         32:11,13 33:5         49:5 60:11,15           115:1         99:10 103:4         125:7 141:6         57:14 72:12         33:9 71:5         93:15           proposed         10:20         104:20 107:2         reasonable         73:10 125:20         91:16 117:6         representative           16:11,12         117:15 121:13         31:14         reduction         122:3 132:14         25:8 88:12           114:23 132:13         122:21 124:9         reasons         12:9         105:20         Remedies         43:9         represented           134:22         129:21 130:11         26:8 34:13         Reeves         32:22         remedy         139:16         14:1 18:12				54:19 144:5	47:11	144:15
116:18       67:1,23 76:23       88:18 107:14       68:22       11:6 17:9 32:9       reports 48:24         propose 34:4       80:8,14 89:7       122:16,20       recovery 57:10       32:11,13 33:5       49:5 60:11,15         115:1       99:10 103:4       125:7 141:6       57:14 72:12       33:9 71:5       93:15         proposed 10:20       104:20 107:2       reasonable       73:10 125:20       91:16 117:6       representative         16:11,12       117:15 121:13       31:14       reduction       122:3 132:14       25:8 88:12         114:23 132:13       122:21 124:9       reasons 12:9       105:20       Remedies 43:9       represented         134:22       129:21 130:11       26:8 34:13       Reeves 32:22       remedy 139:16       14:1 18:12	proposal 91:4			records 68:13	remediation	reporting 36:22
propose 34:4         80:8,14 89:7         122:16,20         recovery 57:10         32:11,13 33:5         49:5 60:11,15           115:1         99:10 103:4         125:7 141:6         57:14 72:12         33:9 71:5         93:15           proposed 10:20         104:20 107:2         reasonable         73:10 125:20         91:16 117:6         representative           16:11,12         117:15 121:13         31:14         reduction         122:3 132:14         25:8 88:12           114:23 132:13         122:21 124:9         reasons 12:9         105:20         Remedies 43:9         represented           134:22         129:21 130:11         26:8 34:13         Reeves 32:22         remedy 139:16         14:1 18:12						
115:1     99:10 103:4     125:7 141:6     57:1472:12     33:9 71:5     93:15       proposed 10:20     104:20 107:2     reasonable     73:10 125:20     91:16 117:6     representative       16:11,12     117:15 121:13     31:14     reduction     122:3 132:14     25:8 88:12       114:23 132:13     122:21 124:9     reasons 12:9     105:20     Remedies 43:9     represented       134:22     129:21 130:11     26:8 34:13     Reeves 32:22     remedy 139:16     14:1 18:12	propose 34:4					
proposed         10:20         104:20 107:2         reasonable         73:10 125:20         91:16 117:6         representative           16:11,12         117:15 121:13         31:14         reduction         122:3 132:14         25:8 88:12           114:23 132:13         122:21 124:9         reasons 12:9         105:20         Remedies 43:9         represented           134:22         129:21 130:11         26:8 34:13         Reeves 32:22         remedy 139:16         14:1 18:12						
16:11,12     117:15 121:13     31:14     reduction     122:3 132:14     25:8 88:12       114:23 132:13     122:21 124:9     reasons 12:9     105:20     Remedies 43:9     represented       134:22     129:21 130:11     26:8 34:13     Reeves 32:22     remedy 139:16     14:1 18:12						I .
114:23 132:13						, <del>.</del>
134:22 129:21 130:11 26:8 34:13 Reeves 32:22 remedy 139:16 14:1 18:12						
						•
F	1.54:22					
						·

	<del></del>				
reproduction	40:2 61:4	RPR 144:9	88:16 91:7	seen 13:1,5	Shirley 29:19
144:12	90:11,17,23	RSR 9:22 10:3	94:10,14,15	21:8,14 22:23	73:18
request 16:24	91:15,17,21	10:5	95:1,5 96:2,12	26:15,19,23	short 31:11
18:20,20,23	122:24 123:2	rubber 54:18	96:13 97:9	26:24 27:12	80:7 129:3
19:1 78:8 82:6	123:8,17	rule 16:11,11	98:3 100:22	27:12 49:23	shorthand
106:7 117:2	125:22 135:13	16:12	100:23 102:3	52:22 53:5	144:14
119:8 121:1	rest 93:22	run 13:16 14:2	102:10,14	58:7 82:15	shortly 88:3
122:10,12	restate 51:22	42:19,22	107:15 108:3	84:16,18 90:1	133:10
requested 19:8	restructuring	63:12 72:11	108:8,13,14	90:5 94:4,7,23	show 37:19
33:1,24 42:6	39:21,23	80:1 109:17	108:15 109:13	97:5	49:11 53:8
81:19,21	result 42:12	110:1,19,19	109:20 116:4	SEGAL 1:13	97:19 114:7
121:4	87:23,24	118:6	119:21 122:15	2:12	120:22
requests 34:2	results 24:22	running 11:14	122:18 129:2	sell 65:22 66:3	showed 93:20
66:12	45:2,6 50:9,13	runoff 52:19	130:13 131:10	sellers 30:16,21	showing 136:5
require 17:4,6	50:21 51:3	runs 60:16	137:4	seminars 75:1	shows 50:22
! 60:1	52:11 87:18	88:11	SCHNADER	sending 119:1,4	97:16 98:12
required 33:11	87:22	Russ 89:23	1:13 2:12	sense 12:8	101:14
42:9 63:1	retain 12:9		science 106:10	134:8	Sighter 3:14
117:6 132:11	retained 11:11	S	scientific 25:20	sent 11:3 15:23	sign 141:8
requirements	13:23 42:21	S 2:1 3:7 4:1	105:16 137:5	30:5 94:8	signature 50:5
57:13 88:13	68:18 69:14	SA 7:13	137:11 139:9	139:12	significant 20:2
requires 138:2	retract 129:16	safe 59:22	139:11	sentence 31:21	23:4 45:10
resample	retracted 129:8	62:17 67:16	scope 8:20	32:3,4 55:8,12	68:4 70:21
102:20	130:6	69:10,12,23	34:19	113:4 117:4	105:12
reserved 5:6	return 141:13	70:5 105:18	Scott 35:16	122:15 127:5	significantly
111:21	Reuben 21:24	105:23	46:16 139:12	131:10,15	37:20 79:12
reside 59:23	79:6,6 109:1	safety 40:12	139:15	separate 119:1	79:15 88:14
62:19 138:15	review 46:5	60:10 61:8	screening 15:8	September	signing 141:10
residential	55:9 63:19,22	105:20	109:14	53:17 54:15	similar 126:8
25:15 65:16	68:12 69:3	sale 66:1	sealing 5:4	85:4	simply 8:3,22
76:6 134:23	77:22 120:16	same 11:16	search 30:8,12	series 54:18	119:23
135:4	reviewed 68:22	31:18 40:2	32:24 45:16	77:24 95:17	since 28:21,24
residents 66:7	Rick 41:4	42:24 43:22	45:18	serve 102:11,15	31:2 58:7
98:6,13,16	Riengenwald	44:1 45:9	second 22:6	111:4	61:17 81:4
100:18	41:5,6	104:24 116:8	41:13 78:23	services 1:21	91:20 100:15
resigned 60:4	right 22:5	141:10 142:5	87:15 88:9	7:20 11:12	104:1 113:9
resolution	24:22 31:9	144:12	100:12 102:9	13:24 42:2,18	115:4 132:1
134:1	35:22 37:20	sample 20:3	108:5,7	42:22 62:24	single 56:18
resolve 103:20	52:13 56:6,17	42:12 102:16	109:12,12	139:8	58:13 77:19
131:21	58:12 59:3	samplers 44:14	112:8,9,14,15	set 44:11 55:1	96:15
resolved 102:1	74:23 76:18	44:20	113:22 114:1	112:19	sir 103:24
102:11 104:2	86:7 96:20	samples 24:23	114:3,4 117:3	setting 44:19	sit 123:3
104:3	100:12 102:9	27:11,12	119:20 121:22	100:13	site 9:23 10:9
resounding 129:3	103:3 110:20 128:23 134:19	37:19 45:6,8	121:24 128:1/	settle 72:19,21	10:12 12:4,12
Resource 39:16	135:7,23	67:13 116:19	131:9,10 secondary 76:9	settlement	19:6 42:5 63:2
40:3	136:22 139:22	118:9	Secondly 98:3	38:14 47:14	63:14 75:24
Resources	rights 5:18	sampling 11:14	100:8	50:7 71:11,13 71:17,18,23	82:13 83:10 84:9 100:19
39:19 40:7	risk 43:9 61:1,2	43:2,4 49:1	section 22:3	several 24:5	103:10 108:9
respect 33:14	64:7 104:10	52:16,16 67:15 84:4	57:5,6 125:19	47:3 75:16	
respect 33.14 respond 112:4	104:13 105:19	67:15 84:4	125:20	90:9 98:6	108:20 109:6
119:21	Rizzo 52:9	93:19 95:20	Sedimentation	113:7 115:2	110:14,17
response 10:7	Road 37:21	97:9,11,16,19 100:8 116:2,5	81:19	134:24 135:6	122:4 123:3
57:21 58:1,3	93:20	117:5 118:2,5	see 39:4 50:12	shareholder	129:4,5,11,16
59:10 112:7	roadside 93:21	saw 90:3	50:13 56:3	45:12	130:7 135:15
127:2	robert 2:12	saw 90.3 saying 53:20	83:6 129:1	shareholders	sites 9:6 40:9
responses 73:8	85:7	77:22 101:2	134:18	45:23 46:6	40:10 75:23
responsibilities	Robin 41:19	112:15 124:11	seeing 82:18	sheet 21:16	76:4 109:15
8:2,8,16,19	Roganwald	129:10 136:14	86:23 97:4	22:6,7 141:7,9	135:3,19,21
responsibility	41:4	says 15:2 22:10	115:19,23	141:11,14	135:3,19,21
	Rogers 52:8	24:22 25:3,4	seem 106:22	142:9	136:18,21,24
9-1 3 40-6		31:10,15,16	seems 80:16	Sheila 1:16	site-specific
9:1,3 40:6 120:22	TIME 11171		Seems CO.IU	DIRECTAL LATE	auc-abecuir
120:22	role 111:21		87-8 103-16	144·Q	12-1 14-1 3
120:22 responsible 8:9	route 38:4	50:19 54:17	87:8 103:16 111:10 132:10	144:9 Shinnen 68:12	12:1 14:1,3
120:22			87:8 103:16 111:10 132:10 136:13	144:9 Shippen 68:12 68:16 69:2	12:1 14:1,3 25:22 42:21 64:7 69:12

98:4 104:10	sometime 18:24	105:1,6	14:13,14 16:2	133:13 139:18	<b>T</b>
114:18,22	75:22 132:22	127:16	16:6,7 23:9	subsidiaries 7:3	T 3:7 4:1 143:2
137:3	132:24 133:3	speaking	25:13 32:4	7:6,9,16	
siting 44:19	133:4	134:14	34:23 51:1	subsidiary	Table 50:8,18
	· -	speaks 102:5			51:1
sitting 52:13	Sometimes		55:9 80:16	76:10	take 5:19 17:22
56:17 58:12	67:24 118:16	128:2 129:14	83:13,14	substance	19:5 56:21,22
136:22	somewhat	specific 12:13	88:10 90:6	142:8	59:2 84:23
situated 44:21	129:2	58:20 91:4	95:2 116:8	successful	86:14 111:20
six 33:24 34:14	soon 36:6	118:17	117:11 120:20	72:17,18	114:21 115:20
65:12 87:7	sorry 7:20	specifically	127:4,11	suddenly 8:19	137:18
88:15 95:3,11	10:24 26:3	17:23 29:17	128:21 134:24	<b>sued</b> 17:8	taken 25:17
95:22 132:12	28:4 30:10,11	30:14 56:20	135:4	suggest 37:22	59:4,12 85:2
132:18 133:22	35:18 49:8	68:17 73:5	state's 116:10	suit 10:5	111:18
six-inch 34:4	51:20 62:9	83:21 87:22	stating 123:9	Suite 1:14 2:13	takes 80:23
skip 36:2	76:23 77:8	94:24 108:2	128:9 130:7	summarized	taking 78:9
smelter 10:13	87:5 103:5	118:10 125:5	statute 72:11	139:14	talk 28:2 83:15
10:13 76:9	112:12 114:6	136:11	72:16 111:21	summarizes	talked 6:12
<b>Smith</b> 37:5 48:5	121:18 128:22	specified	STEWART 2:7	49:1 52:15	
50:2,7 74:17	133:3,6	139:19	Stewart's 94:13	summary 83:9	46:20 89:20
81:20,21	1	spelling 41:11			94:5 134:15
	136:19		94:20,23	139:11	136:10
89:20	sought 30:14,16	spending	113:9	summer 75:22	talking 7:9 13:
Smith's 37:1	sound 80:10	122:22	stick 14:22 15:4	80:4	35:13 39:21
SMOAK 2:7	105:16 106:9	spent 19:14	15:6	Superfund	63:20 67:21
smoke 39:4	Sounds 6:13	spoke 34:18	still 40:21 41:2	83:12 84:9,12	69:22 101:19
software 36:16	81:7	137:21	41:20 60:19	84:13	112:17 120:12
36:18	source 15:10,14	spring 19:3	60:20 100:16	Superior 9:19	120:15 130:15
soil 10:17,19	15:20 22:11	81:11,15	101:3 102:15	supervision	130:16 136:9
19:22 22:12	22:16,20 23:1	Square 2:3	102:24 121:17	57:13 144:14	talks 87:15 91:
23:15 24:12	24:12,16	stack 21:2	132:10,17	supervisor 39:7	97:7 100:13
31:13 36:5	37:24 48:9	stacks 87:17	136:15	39:13	115:24
37:19 42:11	62:11,14	88:19	stipulated 5:2	supplied 63:3	target 125:14
43:4 45:6,8	85:20,23,24	staff 120:20	stop 73:23	support 80:4	tasks 118:17
48:12 50:8	86:15,16,17	standard 25:2	75:19	supports	team 8:9
51:13 52:1,10	86:18 91:5,13	134:23 136:16	Street 1:14 2:4	114:17	
52:16 59:22	92:2,6 96:4,13	137:1	2:9,13	supposed	technical 34:18
62:18 69:22		standards	strict 137:6	104:23	35:12 95:16
	96:15,18			1	130:23 134:2
81:18 95:3,20	111:15 121:11	69:10 85:20	stricter 137:14	sure 6:15 7:10	tell 17:12,14
97:9 101:20	122:20,23	89:4 106:5	strike 78:13	31:23 57:5	51:5 56:12
109:14,18	124:5,6,7,13	start 5:23 6:23	string 77:24	87:1,9 94:23	58:13 71:20
110:9 114:13	131:19,22	started 128:7	study 20:16	103:4 106:10	72:1 130:17
114:14 130:21	132:6	starting 7:17	64:12 102:2	108:4 110:21	. 131:3
132:11 137:16	sources 23:8,9	131:9	102:12 103:7	116:24 119:9	telling 53:22
137:24 138:2	23:11 37:11	state 9:19 10:24	126:4	121:12 127:20	125:5
138:4,19	37:16 90:21	18:6 33:10	studying 11:9	132:24 133:18	ten 27:4,8
139:1	92:20,23 93:2	61:13,23	stuff 5:17,17	surface 52:19	47:20 50:11
soils 131:11	93:5,16,16	80:16 84:12	subcontractors	97:9	59:15 135:17
sold 31:1	96:11,13	88:22 90:16	118:12,14,16	surprise 23:24	tenant 65:6,9
sole 131:22	123:14	94:10,16	118:17	70:24	66:24
some 7:7 14:3	south 1:1 2:5	100:4,7,8,9,15	subdivision	Susan 136:9	Tennessee
27:3 37:2	2:10 9:11	105:6 108:10	37:16 46:22	suspect 92:2	L .
55:20 56:20	16:14 23:15	108:20 141:6	64:21 65:23	suspects 23:3	45:13
			66:8 116:3,20	switching 43:14	term 35:4 55:1
61:10 66:1	61:13,24 75:7	stated 12:22			terminated
73:9 74:15	75:10 85:19	18:6 27:2	131:6	sworn 5:10	65:5,8,11,14
77:17 78:15	91:6 108:10	55:15 64:23	subject 18:11	142:13 144:4	terms 8:20
92:12,23 99:1	108:20 120:21	68:3 73:9,9	109:2,4	•	83:20
00 15 100 5	121:2	86:19 88:23	134:17 141:10	system 36:15	; test 50:8,21
99:15 100:7	space 141:6	90:18 92:1,8	submittal 110:7	36:16,18,19	87:18,24
136:7		104:8 109:21	submitted 19:7	36:20,22,23	88:11
	spaced 77:19		19:10 84:1,12	36:23 58:23	testified 5:11
136:7	spaced 77:19	120:2 123:10	17.10 04.1,12		
136:7 somebody 67:21 139:5	spaced 77:19 Spartanaburg	120:2 123:10			
136:7 somebody 67:21 139:5 someone 121:2	spaced 77:19 Spartanaburg 54:1	120:2 123:10 128:7	95:19 116:18	73:11	testimony
136:7 somebody 67:21 139:5 someone 121:2 something	Spaced 77:19 Spartanaburg 54:1 Spartanburg	120:2 123:10 128:7 statement 56:4	95:19 116:18 117:8	73:11 <b>Systems</b> 87:16	testimony 144:5
136:7 somebody 67:21 139:5 someone 121:2 something 67:19 68:1	Spaced 77:19 Spartanaburg 54:1 Spartanburg 2:5 57:20	120:2 123:10 128:7 statement 56:4 94:18 96:6	95:19 116:18 117:8 subpart 85:24	73:11 <b>Systems</b> 87:16 89:1	testimony 144:5 testing 87:16,1
136:7 somebody 67:21 139:5 someone 121:2 something 67:19 68:1 87:8 89:19	Spaced 77:19 Spartanaburg 54:1 Spartanburg 2:5 57:20 136:6	120:2 123:10 128:7 statement 56:4 94:18 96:6 98:8 114:20	95:19 116:18 117:8 subpart 85:24 Subscribed	73:11 <b>Systems</b> 87:16 89:1 <b>S.C</b> 3:20	testimony 144:5 testing 87:16,1 87:20 89:2
136:7 somebody 67:21 139:5 someone 121:2 something 67:19 68:1	Spaced 77:19 Spartanaburg 54:1 Spartanburg 2:5 57:20	120:2 123:10 128:7 statement 56:4 94:18 96:6	95:19 116:18 117:8 subpart 85:24	73:11 <b>Systems</b> 87:16 89:1	testimony 144:5 testing 87:16,1

		·			
Towns 76.9 77.6	1 20.10 20.10	1 06.10 07.14	: 21.20.22.22	89:4	70.0 12 10
Texas 76:8 77:6	28:19 29:18	96:18 97:14	31:20 32:23		78:9,13,19
text 31:24	30:3 35:13	98:14 99:23	121:8 128:6	violating 17:17	81:6,8 84:20
50:10 79:5,16	42:24 98:24	100:6 101:24	undertaken	violation 86:3	90:22 92:12
their 15:9,10	99:6 134:3	104:17 105:11	91:16	violations	92:22 96:14
20:16 27:4,20	throughout	113:18 123:24	Unfortunately	61:15,15,19	96:16 97:11
28:15 47:17	25:13 61:16	128:14 129:7	106:4	61:23	99:5 100:3
68:18 75:24	thrust 17:15	129:18 130:9	united 1:1	virtually 57:2	102:4,7 103:6
76:1 87:15	Tilford 87:4	130:19,22	14:13 16:2,6,7	voluntarily	103:11 105:9
91:20 93:8	time 5:7 6:6	131:5 138:10	23:9 25:13	59:17 60:5,6	105:14 106:22
95:6 106:17	7:16 19:8	trailers 138:14	unless 70:10	V-A-N 39:10	110:9 113:3,9
132:20 133:8	28:20 43:7	138:17,20	144:13		115:9 118:22
137:1 139:13	45:22,24 46:5	transcript	unnecessary	W	119:16 122:19
theirs 118:12	46:7 48:1	141:16.17	126:9	waived 5:5	123:13 124:2
themselves	56:22 58:6,15	144:11	unquote 77:24	want 6:14 17:1	124:11,23
105:19	66:7 78:10	transcription	until 57:9 59:12	29:17 36:10	125:4,16,21
thing 54:10	79:23 87:21	142:6	85:2 101:24	53:10 56:11	126:2 127:19
77:20	94:8,17,19	transport 38:2	102:10 103:15	59:11,18	127:23 128:12
things 40:3	103:11,17	treatment	Uptake 109:16	77:19 91:10	128:17 129:15
61:15 77:17	104:13 113:1	58:23	Urban 16:8	92:15 103:7	132:3 135:19
99:16	113:7 124:1	trial 5:7	use 11:16 13:24	105:9 107:7	138:3
think 6:7,19	133:1,9	tried 24:18	25:13 26:6		wells 57:10,12
	137:20,21		36:15,18,18	111:11 114:9	went 34:14
15:3 33:4 41:9		trucks 38:5	63:14 118:16	117:12,21	54:11
42:14 43:12	times 39:1,3	true 89:7 97:21		120:10,11	
58:19 62:8	62:4 68:1	111:14,15	used 11:17,19	122:24 123:19	were 9:4 10:1
64:23 71:6,8	113:8 134:16	115:9 144:4	12:14 13:12	126:4 127:17	12:12 15:23
75:22 77:10	timing 122:12	try 35:18	15:5,6 25:15	130:1	27:6,12 30:12
79:23 80:23	title 7:19 8:1,6	trying 9:21	36:23 41:24	wanted 18:17	34:13 37:4
82:1,5 87:7,11	8:22 125:18	112:19 122:19	63:18 110:18	26:9,16 51:19	39:17 44:16
87:12 89:18	today 39:8,20	122:22 124:4	134:23 135:5	77:16 94:4	44:20 46:3
92:16,19 93:6	together 107:14	124:5,12	141:18	102:7 103:20	57:10,12 58:1
96:9,12	110:22	turned 48:4	useful 15:8	123:13,15	58:21 65:10
100:24 105:15	told 51:16	twice 137:15	uses 15:3 42:1,4	wants 51:13	65:14 72:10
109:21 119:13	58:16 107:6	two 19:5 39:2	using 12:1,12	97:8 104:16	73:4,10,14
119:14 124:3	118:4 122:13	39:10 40:5	12:12,17	105:13 117:17	75:17 <i>7</i> 9:17
124:5,14	124:19 125:8	55:10 66:15	42:19 70:8	123:3 125:23	79:18,19 82:1
126:23 127:24	129:11 137:7	82:10 93:4	79:11,19 80:2	warnings 66:19	84:5,7 87:7,22
128:1 129:14	top 22:5 54:15	97:7 100:11	136:24	wasn't 72:16,18	88:19 99:13
136:20	114:4	101:3 107:11		89:18	99:16 100:5
thinking 51:20	total 100:21	110:21 114:24	V	waste 103:11	101:15 130:8
95:14	towards 120:5	136:17	v 1:5	103:17 120:20	130:18 131:4
thinks 56:2	toxicologist	two-page 77:18	valid 24:3 51:6	123:24	135:20,24
third 31:9 83:7	137:10	two-year 19:14	130:23	Water 81:11,14	136:14
90:6 113:4	trailer 9:10	type 20:22	Van 39:10	way 55:2 70:19	weren't 77:15
116:9 131:8	11:17,19 12:6	58:21	variability	74:4 114:8	97:3
third-party 9:6	12:11,16,24	00.21	131:20	120:22	Westgate 9:10
40:9	13:4,13,22	U	variations	Wednesday	11:17,19 12:6
thirty 141:15	14:5 15:11,14	Uh-huh 10:4	31:10	11:3 15:24	12:11,16,24
Thomas 29:8	15:18 16:21	39:9	various 62:4	21:7	13:4,13,21
though 53:4	17:9,20 18:18	unable 109:22	69:21	week 11:4 21:7	14:5 15:11,14
131:3 134:1	19:2,22 22:12				15:18 16:21
thought 9:7	22:17 26:10	unclear 120:19	vast 30:23	58:8 82:10	16:24 17:9,20
51:18 58:17	26:22 27:15	under 6:10 10:7	venipuncture	weeks 114:24	18:18 19:2,8
	27:23 28:1	24:21 27:7	14:20 27:10	well 8:6,15	19:22 20:15
71:5,6 77:7	l	57:13 83:17	27:13	12:19 18:6	
106:17 118:5	32:7,22 33:6,9 33:14,22	85:24 86:16	verbiage 13:7	19:16 23:9	23:5,13 25:23
. thron 22.71	33.14,22	99:16 119:15	versus 9:18	26:8,15 29:4	26:7,10,21
three 33:21	27.15 44.12		very 14:6 23:10	30:3 31:1 32:2	27:15,23 28:1
34:7,14,24	37:15 44:12	144:13		22.10.24.240	27,77 22.50
34:7,14,24 39:2 65:12	46:15,22	undergone 32:9	36:21 96:10	33:19 34:6,10	32:22 33:5,9
34:7,14,24 39:2 65:12 95:7,11,22	46:15,22 47:11 48:9	undergone 32:9 underneath	36:21 96:10 103:11 111:15	36:1 38:1 40:1	33:14,22
34:7,14,24 39:2 65:12 95:7,11,22 137:18 138:7	46:15,22 47:11 48:9 51:14,17,21	undergone 32:9 underneath 138:16	36:21 96:10 103:11 111:15 vicinity 28:9	36:1 38:1 40:1 46:9 48:16	33:14,22 37:11,19
34:7,14,24 39:2 65:12 95:7,11,22 137:18 138:7 138:9	46:15,22 47:11 48:9 51:14,17,21 52:3 62:12	undergone 32:9 underneath 138:16 understand	36:21 96:10 103:11 111:15 vicinity 28:9 55:5 57:9	36:1 38:1 40:1 46:9 48:16 49:6 50:8	33:14,22 37:11,19 39:18 42:17
34:7,14,24 39:2 65:12 95:7,11,22 137:18 138:7 138:9 three-inch	46:15,22 47:11 48:9 51:14,17,21 52:3 62:12 64:15,18	undergone 32:9 underneath 138:16 understand 54:19 55:13	36:21 96:10 103:11 111:15 vicinity 28:9 55:5 57:9 videotape	36:1 38:1 40:1 46:9 48:16 49:6 50:8 55:21 56:8	33:14,22 37:11,19 39:18 42:17 46:15,21
34:7,14,24 39:2 65:12 95:7,11,22 137:18 138:7 138:9 three-inch 132:13	46:15,22 47:11 48:9 51:14,17,21 52:3 62:12 64:15,18 68:14,23	undergone 32:9 underneath 138:16 understand 54:19 55:13 64:11 78:11	36:21 96:10 103:11 111:15 vicinity 28:9 55:5 57:9 videotape 45:17,19,20	36:1 38:1 40:1 46:9 48:16 49:6 50:8	33:14,22 37:11,19 39:18 42:17 46:15,21 47:11 48:9
34:7,14,24 39:2 65:12 95:7,11,22 137:18 138:7 138:9 three-inch 132:13 threshold 32:5	46:15,22 47:11 48:9 51:14,17,21 52:3 62:12 64:15,18 68:14,23 69:16 70:6	undergone 32:9 underneath 138:16 understand 54:19 55:13	36:21 96:10 103:11 111:15 vicinity 28:9 55:5 57:9 videotape	36:1 38:1 40:1 46:9 48:16 49:6 50:8 55:21 56:8	33:14,22 37:11,19 39:18 42:17 46:15,21 47:11 48:9 51:13,16,21
34:7,14,24 39:2 65:12 95:7,11,22 137:18 138:7 138:9 three-inch 132:13 threshold 32:5 through 5:17	46:15,22 47:11 48:9 51:14,17,21 52:3 62:12 64:15,18 68:14,23 69:16 70:6 79:13 90:24	undergone 32:9 underneath 138:16 understand 54:19 55:13 64:11 78:11	36:21 96:10 103:11 111:15 vicinity 28:9 55:5 57:9 videotape 45:17,19,20	36:1 38:1 40:1 46:9 48:16 49:6 50:8 55:21 56:8 57:9 58:18	33:14,22 37:11,19 39:18 42:17 46:15,21 47:11 48:9 51:13,16,21 52:2 59:12
34:7,14,24 39:2 65:12 95:7,11,22 137:18 138:7 138:9 three-inch 132:13 threshold 32:5	46:15,22 47:11 48:9 51:14,17,21 52:3 62:12 64:15,18 68:14,23 69:16 70:6	undergone 32:9 underneath 138:16 understand 54:19 55:13 64:11 78:11 78:14 129:22	36:21 96:10 103:11 111:15 vicinity 28:9 55:5 57:9 videotape 45:17,19,20 45:24	36:1 38:1 40:1 46:9 48:16 49:6 50:8 55:21 56:8 57:9 58:18 61:10,16 65:9	33:14,22 37:11,19 39:18 42:17 46:15,21 47:11 48:9 51:13,16,21

				<u> </u>	
62.0.21.64.14	20.10.124.14		1 <b>991</b> 98:24	49:18 54:15	6 3:9,14 82:21
63:9,21 64:14	30:19 124:14 132:15	1	1991 98.24 1994 7:1,18,21	56:24 87:17	82:23,24
64:18 68:5,14	,	1 3:9 6:16,20	8:18 47:11	131:8	101:13
68:23 69:16	word 79:5	50:8,18 54:17	52:21 71:6	3/12/99 3:23	6/15/99 4:3
70:5 79:13	words 31:10	94:10,13,21	75:8,11 81:12	3/12/99 3:23 3/19/97 3:17	6/21/99 4:5
83:10 84:1	39:10	94:24 142:5			
	work 7:2 34:19	1/13/99 3:22	81:15	3:15 140:2	6/23/99 4:6
90:24 91:5,19	35:12 36:7	<b>10</b> 3:18 14:17	<b>1995</b> 18:24	30 141:15	6/25/99 4:7
92:1 93:20	39:18 40:21	93:23	39:12,13	30(b)(6) 9:20	6:99-1933-20
96:5,18 97:20	42:3,5 43:8,10	10/18/99 3:9	45:14 85:4	300 2:9	1:7
98:14,15 99:7	95:19 102:19	<b>100</b> 106:8	88:4 98:7	31 88:4	6040 86:1
99:23 100:5	103:1 125:8	101 3:20	1996 8:5,22	<b>3600</b> 1:14 2:13	<b>63</b> 25:2
100:17 102:24	126:8 133:13	<b>103</b> 48:13 50:14	18:24 33:8		_
103:21,22,23	workers 61:6,9	50:22	75:16,22	4	7
104:12,17	61:14 74:16	<b>104</b> 50:16	82:14 86:21	4 3:12 21:12	7 3:15 85:6,9
	working 6:24	<b>105</b> 65:2	97:9	22:1,3 53:13	<b>70</b> 64:2
109:5 110:19	55:3 93:7	107 3:22 65:7	1997 8:3,4,6,12	54:10,20 64:4	<b>70s</b> 57:12
113:13,18	120:21	11 3:19 96:22	8:24 19:3,10	64:5 78:2,2	<b>700</b> 63:7
123:24 128:14	world 92:11	96:24	39:24 84:2	82:20 83:2	<b>751-2074</b> 2:14
130:19,21,22	worry 36:2	11/5/98 3:13	89:13 90:9	87:17 89:17	77 3:13
131:5,12	wouldn't 11:16	<b>11:05</b> 1:16	94:2,13,21	122:14 125:20	
134:16,17	12:5 99:21	111 3:23	113:9 115:5	4/14/98 3:19	8
138:4,10	102:15 105:9	115 4:3	125:10 132:13	400 12:20,23	8 3:16 86:9,10
we'll 36:1 54:7	125:23,24	118 4:4	<b>1998</b> 3:10 16:11	13:2 19:11	<b>8/13/97</b> 3:18
61:17 72:23	126:3	12 3:20 28:24	35:16,20,21	20:11 25:10	80 24:23
85:5 107:16	Wright 89:23	101:10	80:4 96:21	25:14,18	80s 52:24 57:13
110:20 119:9	writing 53:18	12/1/98 3:22	101:13 116:1	26:17 31:14	61:16
' we're 7:9	111:7 118:23	12/31/96 3:14	<b>1999</b> 1:9 50:6	31:16 32:6	812 24:24 25:6
103:12 130:15	123:10	12/6/98 3:20	53:17 54:16	35:1 36:10	83 3:14
	written 80:24	12:55 85:2	107:12 115:3	51:19 52:11	<b>85</b> 3:15
we've 126:2	91:10 113:1	127 4:5	115:14 127:3	80:11 94:12	<b>86</b> 3:16
132:9	137:21 138:8	<b>13</b> 3:22 94:2	129:13 134:13	94:17 97:8,13	864 2:5,10
while 25:16	wrong 50:23	107:12,17	136:6 142:14	97:17,20	89 3:17
38:23 39:2	56:4 104:2	113:24	144:10	100:14,20	<b>895</b> 116:11,14
88:10	110:6	134 4:6		101:1,6 103:2	116:17
whole 29:18		136 4:7	. 2	104:4,9	
30:3 54:10	X	<b>14</b> 3:23 35:16	2 3:10 21:4,10	106:12,24	9
87:13 138:10	<b>X</b> 3:1,7 4:1	35:20 96:21	21:16 35:23	107:8 109:9	9 3:17 89:9,14
wholesale		110:23,24	51:1 87:17	109:13 113:10	120:15 121:17
137:24 138:3	Y	140 142:5	95:2 120:9	113:13,16	9/20/99 3:12
138:19	yeah 21:3 35:21	<b>15</b> 4:3 115:13	128:19 136:7	' 114:14 117:8	<b>9/28/95</b> 3:15
wide 90:18	36:13 51:24	115:15	<b>2,690</b> 50:16	117:13,21	<b>90s</b> 52:24 61:16
willful 55:10,13	77:1,3,21	15th 1:21	<b>2,760</b> 25:1	121:6 122:7	<b>91</b> 99:6
willing 123:11	78:21 120:10	1571 2:4	<b>2/28/96</b> 3:16	137:24	<b>93</b> 71:16
willingness	121:21 124:11	<b>16</b> 4:4 118:19		. 45 117:9	<b>94</b> 3:18 8:16
108:12 129:4	year 17:19	121:19,21	20 53:17	49 3:11	88:7
133:14 Wilson 35:17	33:17 75:11	<b>1600</b> 1:14 2:13	21 3:10 28:7	: <b>-</b>	944 50:23
Wilson 35:17	, 76:21	17 4:5 30:6	129:12	5	<b>95</b> 88:7
46:17 101:14 139:13	years 19:5	59:13 126:20	21st 133:2,4,4	5 3:4,13 77:12	<b>96</b> 8:17 33:4
Winston 89:20	28:24 61:20	130:24	<b>215</b> 1:23 2:4,14	87:18 144:10	96-12-HW
winter 19:2	93:14 98:7	<b>18</b> 4:6 54:17	22 1:9	5th 17:18 33:17	83:17 116:23
wipe 50:21	Yep 108:17	134:9	23 115:24	132:23 133:5	; <b>97</b> 3:19 8:17,19
67:13 118:9	yesterday	18-page 56:12	134:13	133:11	988-9191 1:23
wish 65:15	49:23 58:9	: 56:19 : 1990 1.22	<b>25</b> 24:1 64:2	5/28/99 4:4	
witness 3:2	82:16,19 90:3	1880 1:22	<b>26</b> 50:6	<b>50</b> 24:1	
35:6 54:13	7	19 4:7 89:12	<b>271-1300</b> 2:10	<b>500</b> 19:20,24	1
78:9 80:15	Z	136:2 19103 1:22	<b>271-1300</b> 2.10 <b>2757</b> 2:9	20:3,4,6,12	E L
83:2 86:12	zero 73:1	19103 1:22	<b>28</b> 85:4 86:21	25:10 35:2	
91:23 99:11	Zile 39:10	2:13	127:2	48:17,20 59:7	
107:3 113:24	' <b>Z-I-L-E</b> 39:11	1	<b>287</b> 25:1	134:22 136:15	
117:16 127:19	•	1980s 57:15	<b>29304</b> 2:5	137:19,24 <b>520</b> 63:7	
	\$	1 <b>984</b> 47:14 1 <b>987</b> 28:22	<b>29602</b> 2:10	53 3:12	
1.28:4-1.50:1.7	175 IMM) 77.A	1701 40.44	_ <b></b>		į.
128:4 130:12 133:18 141:2	<b>\$175,000</b> 72:4			582.5472 2.5	ļ
133:18 141:2		52:20 57:9	1	582-5472 2:5	!
	0 0.7 114:12		<b>3 3</b> 3:11 16:10	582-5472 2:5 6	

## REMEDIAL SITE ASSESSMENT DECISION - EPA REGION IV

EPA ID: SC0000487678 Site Name: WESTGATE MOBILE HOME

Page 1 of 1

State ID:

Alias Site Names:		
City: GREER	County or Parish: GREENVILLE	State: SC
Refer to Report Dated: 12/30/1		
Report Developed by: STATE	PA/SI	
DECISION:		
1. Further Remedial Sh because:	te Assessment under CERCLA (Superfund) is not required	
1a. Site does not qu (No Further Remedi	ualify for further remedial site assessment under CERCLA all Action Planned - NFRAP)	·
1b. Site may qualify	y for action, but is deferred to:	
2. Further Assessment	Needed Under CERCLA:	
2a. Priority: Hig		
2b. Other: (recomm	mended action) NFRAP (No Futher Remedial Action Planned	
DISCUSSION/RATIONALE:		<del></del>
SITE DECISION REVISED 9-11-2000.		
Site status has been revisited by the SC S oversight. Threat is effectively removed by	self-Directed Work Team. During summer 1999, past site owner/operator conducted y this action. NFRAP.	an extensive soil removal under State
ŀ		
Ì		
		· •
	*	
		•
	,	
Site Decision Made by: Signature:	Jeh O. Havarly. (9-11-00)	Date: 05/15/1997
	/	

**EPA Form #9100-3** 

## REMEDIAL SITE ASSESSMENT DECISION - EPA REGION IV

Site Name: Westgate Mobile Home	EPA ID#: SC0 000 487 687
Alias Site Names:	
City: Greer	County or Parish: Greenville State: SC
Refer to Report Dated: December 30, 199	Report type: PA/SI
Report developed by: SCDHEC	<del></del>
DECISION:	
1. Further Remedial Site Assess	ment under CERCLA (Superfund) is <u>not</u> required because:
I I 1a. Site does not qualify for t site assessment under CE (No Further Remedial Act	•
X   2. Further Assessment Needed	Under CERCLA: 2a. (optional) Priority:     Higher   X   Lower
2b. Activity     PA Type:   SI	X   ESI     HRS evaluation
Other:	•
the present. The main concern is the hig battery plant owners have agreed to inve	nich manufactured lead-bearing batteries between the late 60s and gh levels of lead present in surface soils in the trailer park. Since the estigate the park and adjacent plant under State oversight, and , the site will be considered "Low Priority" for an ESI, but will be gressed further.
Report Reviewed and Approved by: Ralph O. Howard, Jr_ Site Decision Made by: S. Carolina Preremedial Team	DIL A H III in car

EPA Form # 9100-3

not waste DOC Duplicates in State fell (halphs)

May 15, 1998

## MEMORANDUM

SUBJECT: Initial Soil Lead Results for the Westgate Trailer Park, Greer, South Carolina, Draft Report

Westgate Trailer Park

Greer, SC

Project No. R55, VP0300

FROM:

Diana A. Love, Esq.

Director, NEIC

TO:

Bruce Miller

Associate Director for Technical Support

EPA - Region 4, Atlanta, Georgia

Attached is a report for the subject case. If there are any questions, please

contact Steve Machemer at (303) 236-5132, extension 287.

Attachment -

cc:

Floyd Ledbetter

Sherri Fields

# UNITED STATES ENVIRONMENTAL PROTECTION AGENCY Office of Enforcement and Compliance Assurance Office of Criminal Enforcement, Forensics and Training

### ANALYTICAL RESULTS

Initial Soil Lead Results for the Westgate Trailer Park
Draft Report
Greer, South Carolina
Project No. R55,VP0300

MAY 15, 1998

Steve Machemer Project Leader

NATIONAL ENFORCEMENT INVESTIGATIONS CENTER
Diana A. Love, Director
Denver, Colorado

Initial Soil Lead Results for the Westgate Trailer Park
Draft Report
Greer, South Carolina
Project No. R55,VP0300

### Introduction

At the request of EPA Region 4, NEIC conducted sampling and subsequent analysis of soil samples from the Westgate Trailer Park in Greer, South Carolina. The objective was to identify the source of lead contamination found in the trailer park soil. As an initial step, soil litter samples from the trailer park were analyzed for total lead concentration. This report provides the initial results of the lead analyses of the soil litter samples from the trailer park.

## Sampling

Eighty samples (1A to 20D) of soil litter were subsampled from eighty soil cores taken from various locations in the Westgate Trailer Park on May 12, 1997. Soil cores were collected in polycarbonate core tubes 15 centimeters (6 inches) in length and 5 centimeters (2 inches) in diameter by slide hammer coring devices. Locations of twenty "A" samples (1A to 20A) were chosen based on XRF analyses conducted in the field by EPA-Region 4 personnel. To determine the areal extent and variability of lead concentrations in the soil, "B", "C", and "D" sample locations were chosen randomly relative to "A" samples as described below. This resulted in the collection of twenty sets of 4 samples, "A" through "D" which represented separate areas of soil in the trailer park.

Locations of twenty "B", twenty "C", and twenty "D" samples (1B to 20B, 1C to 20C, and 1D to 20D) were determined relative to "A" samples using a preconstructed template. The template was constructed using computer generated pairs of random numbers. The pairs of random numbers represented randomly selected sample locations for samples "B", "C", and "D" within separate one third areas of the circle with sample "A" at the center and a radius of 1.5 meters (5 feet) (Figure 1a). The configuration of "A", "B", "C", and "D" sample locations are shown in Figure 1a. Obstructions required the distance from sample "A" to each of samples "B", "C", and "D" to be cut in half for sample sets 1, 5, 14 and 15. In this way, 16 sample sets of 4 samples (A to D) represented the lead concentrations in the soil litter over separate areas of 7.3 square meters. For sample sets 1, 5, 14 and 15, the area was 1.8 square meters.

## Sample Preparation

The litter layer material was separated from the mineral soil in the cores and dried to constant weight at 50 degrees Celsius. Litter layer samples were ground using a Spex Shatterbox ring and puck grinding mill. Aliquots of ground samples were prepared for analysis by nitric acid digestions and potassium hydroxide fusions.

## Sample Analysis

Lead in the soil litter layer was analyzed by inductively coupled plasma-mass spectrometry (ICP-MS) on nitric acid digestions as the primary analytical technique. For confirmation, lead was also analyzed by inductively coupled plasma-atomic emission spectroscopy (ICP-AES) on potassium hydroxide fusions.

## Sample Statistics

Averages, standard deviations, and relative standard deviations were calculated for the entire set of eighty lead analyses and for each set of 4 samples (A to D) representing distinct areas in the trailer park. In addition, two-sided (upper and lower) confidence limits for the mean at 95 percent confidence and three degrees of freedom were calculated for each area represented by sets of 4 samples.

#### Results

The ICP-MS results of lead concentrations for the soil litter in the trailer park are reported (Table 1a.). ICP-MS and ICP-AES analyses were in good agreement where 69 percent of results were within 10 relative percent difference and 99 percent of results were within 20 relative percent difference. The attached maps (Figure 1b and 1c) display the soil sample locations and lead concentrations for the soil litter layer in Westgate Trailer Park. For all eighty samples collected, lead concentrations average 812 mg/kg and range from 287 to 2760 mg/kg with a relative standard deviation of 63 percent. Large variations in lead concentrations are also found between areas represented by sample sets. For example, lead concentrations in sample set 17A-17D averages 356 mg/kg while lead concentrations in sample set 9A-9D averages 1925 mg/kg, or 5 times as much. These results show a large variability in lead concentrations within the trailer park.

In addition, large variations of lead concentrations occur within areas represented by sample sets. For example, sample set 10A-10D shows variations from 549 to 1310 mg/kg with a relative standard deviation of 49 percent, and sample set 19A-19D shows variations from 287 to 504 mg/kg with a relative standard deviation of

22 percent. These results indicate a large variability in lead concentrations within areas represented by sample sets.

Upper confidence limits of the mean for areas represented by sets of 4 samples do not reveal any area in the trailer park where the average lead concentration is below 400 mg/kg at 95 percent confidence. In other words, variations in lead concentrations are too great over short distances (less than a meter) to distinguish areas of soil with lead concentrations below 400 mg/kg with any reasonable confidence. Therefore, based on a threshold level of 400 mg/kg, the entire area of the trailer park must be remediated with the possible exception of the northeast area which has previously undergone remediation activity.

Table 1a. Lead Concentrations in the Westgate Trailer Park soil litter.
Mass spectrometry results.

Sample	Lead (mg/kg)	Sample Set Std Dev	Sample Set Average	Relative Std Dev	LCL of the Mean	UCL of the Mean
001-ssa1	983		-			
001-ssb1 001-ssc1	1240 1210					
001-sad1	973	143	1102	0,13	874	1329
002 <del>-esa</del> 1	801					
002-esb1	561					
002-esc1 002-esd1	836 836	140	767	0.18	544	989
003-ssa1	559	,,,,,	,,,			
003-esb1	1100					•
003-asc1 003-asd1	976 834	~~	867	0.27	497	4007
004-esa1	1430	232	007	0.21		1237
004-esb1	642					
004-esc1	1170					
.004-esd1 005-esa1	<b>936</b> 1470	350	1020	0.34	463	1576
005-asb1	1610					
005-ssc1	1340					
005-ssd1	2550	550	1743	0.32	868	2817
006-esa1 006-esb1	987 1050					
006-esc1	645					
006-esd1	819	168	850	0.20	583	1117
007-8581	620					
007-ssb1 007-ssc1	625 686					
007-sad1	718	48	662	0.07	586	738
008-ssa1	1210					
008-esb1 008-esc1	2050					
008-esd1	2050 1390	439	1675	0.26	976	2374
009-ssa1	2760	400		<b></b>	•••	
009-ssb1	1610			_	•	
009-asc1 009-asd1	1670	-	400#		1038	0010
010-esa1	1660 572	557		The state of	1036	2812
010-esb1	602	•		100		
010-6801	1310	<b>#</b>	Alle			
010-esd1 011-esa1	549 321	368	758	0.49	172	1344
011-asb1	876					
011-esc1	613					
011-esd1	367	256	544	0.47	138	951
012-esa1 012-esb1	679 641					
012-6801	526					
012-ssd1	817	120	686	0.18	475	857
013-68a1	836					
013-ssb1 013-ssc1	474 693			المين ال		
013-ssd1	669	149	.668	22 الأد	431	905
014-esa1	418	ا حديد	<b>つ</b> 以	£'2		
014-esb1 014-esc1	371 445	4	11 8 3			
014-esd1	316	Ver	388	0.15	297	479
015-ssa1	440					
015-asb1	400					
015-esc1 015-esd1	541 527	68	477	0.14	369	585
016-esa1	466	•••	4.7			-
016-esb1	512					
016-esc1 016-esd1	301 460	•	435	0.21	288	581
017-ssa1	336	92	400	V-21	250	901
017-ssb1	445					
017-ssc1	323					
017-ssd1 018-ssa1	319 442	60	356	0.17	260	451
018-esb1	370					
018 <del>-cs</del> C1	471					
018-esd1	411	43	424	0.10	355	492
019-esa1 019-esb1	504 287					
019-6801	423					
019-sad1	418	90	408	0.22	265	551
020-esa1	502					
020-esb1 020-esc1	485 488					
020-esd1	522	17	. 400	0.03	472	526
average	812	197	812	0.22	498	1126
mumlnim	287	17	366	0.03	138	451
meximum etd dev	2760 511	557 169	1925 469	0.49 0.12	1038 261	2812 718
ueq etta dev	0.63	0.86	82.0	0.53	0.52	0.84
median	633	142	667	0.20	488	928

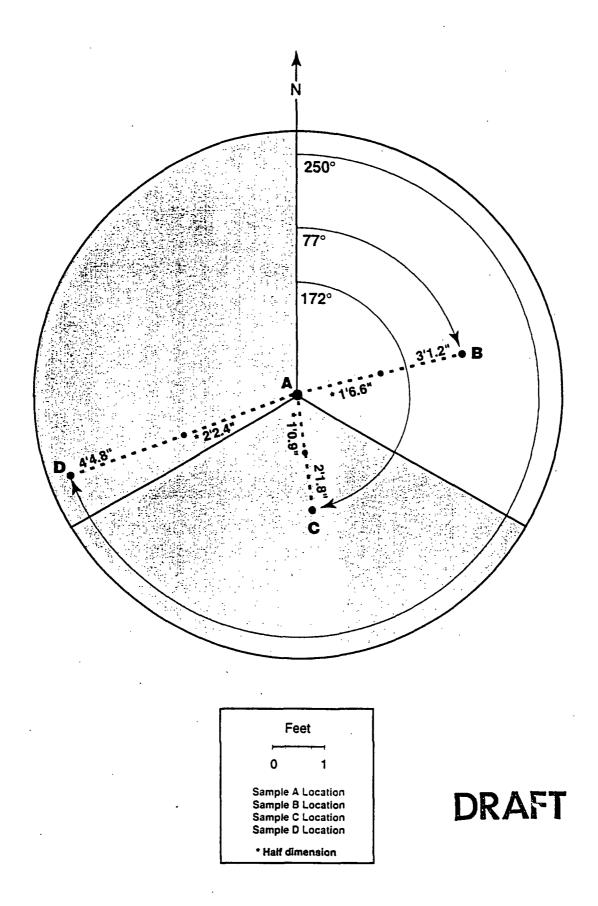
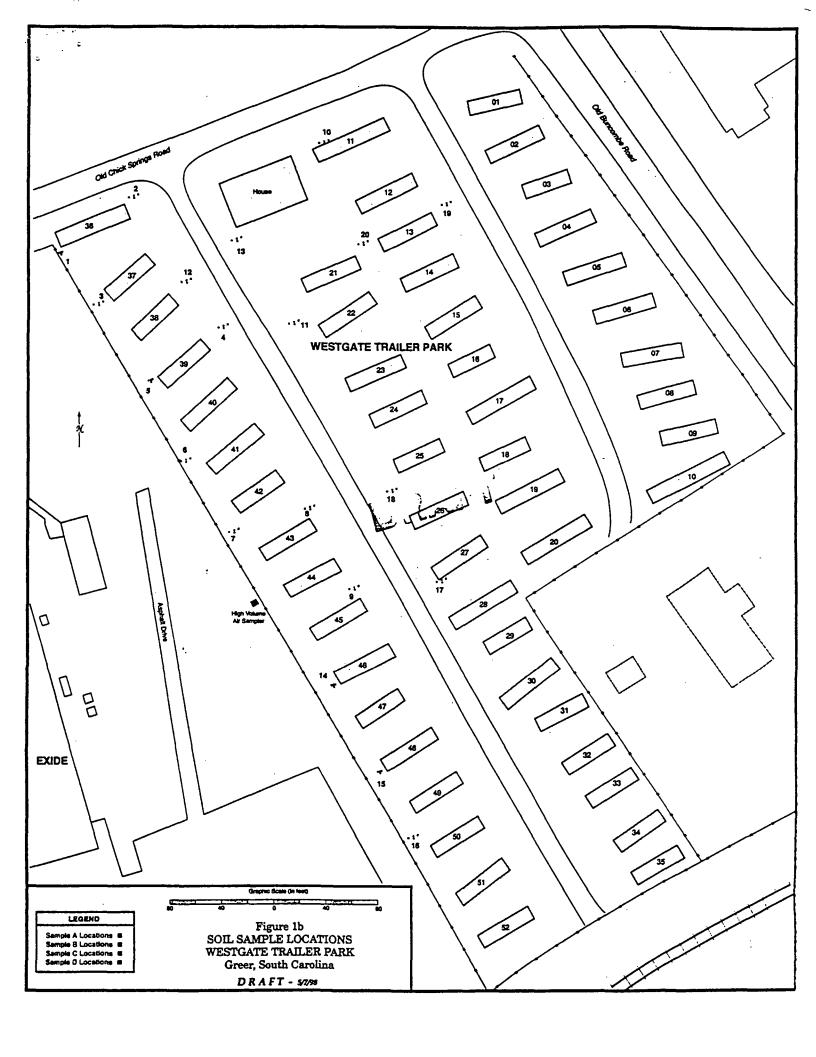
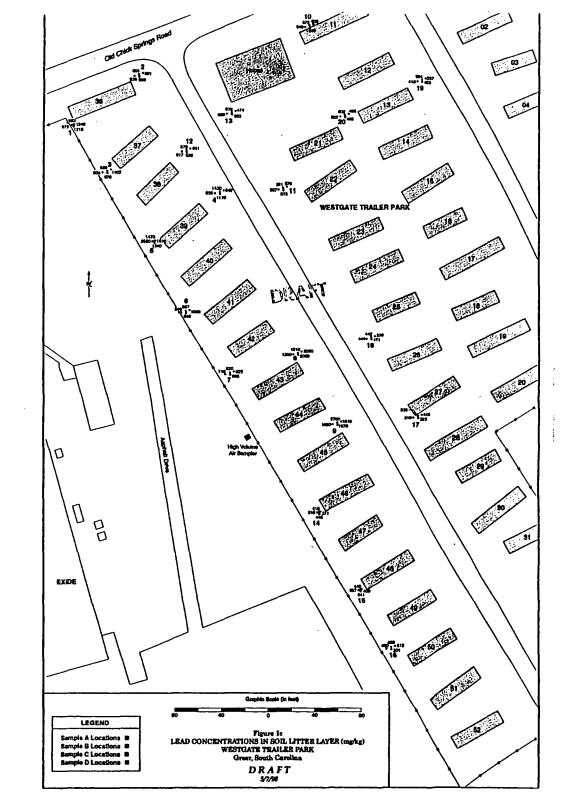


Figure 1a TEMPLATE DIMENSIONS FOR THE WESTGATE TRAILER PARK SAMPLING May 12, 1997





. .

· .



# REMEDIAL INVESTIGATION REPORT WESTGATE TRAILER PARK

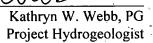
GREER, SOUTH CAROLINA

Prepared for **EXIDE CORPORATION** 

Greer, South Carolina

Prepared by **THE FLETCHER GROUP, INC.** 

January 1997



## **Table of Contents**

Section	n		<u>Page</u>
1.0	Execut	tive Summary	1
2.0	Previo	us Investigations and Removal Actions	3
3.0	Remed	lial Investigation Activities	5
4.0	Reviev	w of Potential Sources of Lead in Soil	9
			•
List of	f Figure	s	
Figure Figure Figure Figure	2. 3.	Map of the Area Surrounding the Westgate Trailer Park Weston Soil Sample Location Map, June 29, 1994 November 1996 Soil Sample Location Map High Volume Air Sampling Locations	4 7
List of	f Tables		
Table ?		Summary of November 1996 Soil Lead Concentrations	
List of	f Appen	dices	
Appen Appen Appen Appen	dix B dix C	Consent Order 96-12-HW Representative Sample Location Photographs Laboratory Report and Chain of Custody Form Summary of Duplicate and Blind Duplicate Data	

Westgate Trailer Park Remedial Investigation Report

January 1997

#### 1.0 Executive Summary

The Remedial Investigation (RI) for the Westgate Trailer Park, Old Chick Springs Road, Greer, South Carolina was conducted by Exide Corporation pursuant to the South Carolina Department of Health and Environmental Control (SC DHEC) Consent Order 96-12-HW (the "CO") (Appendix A).

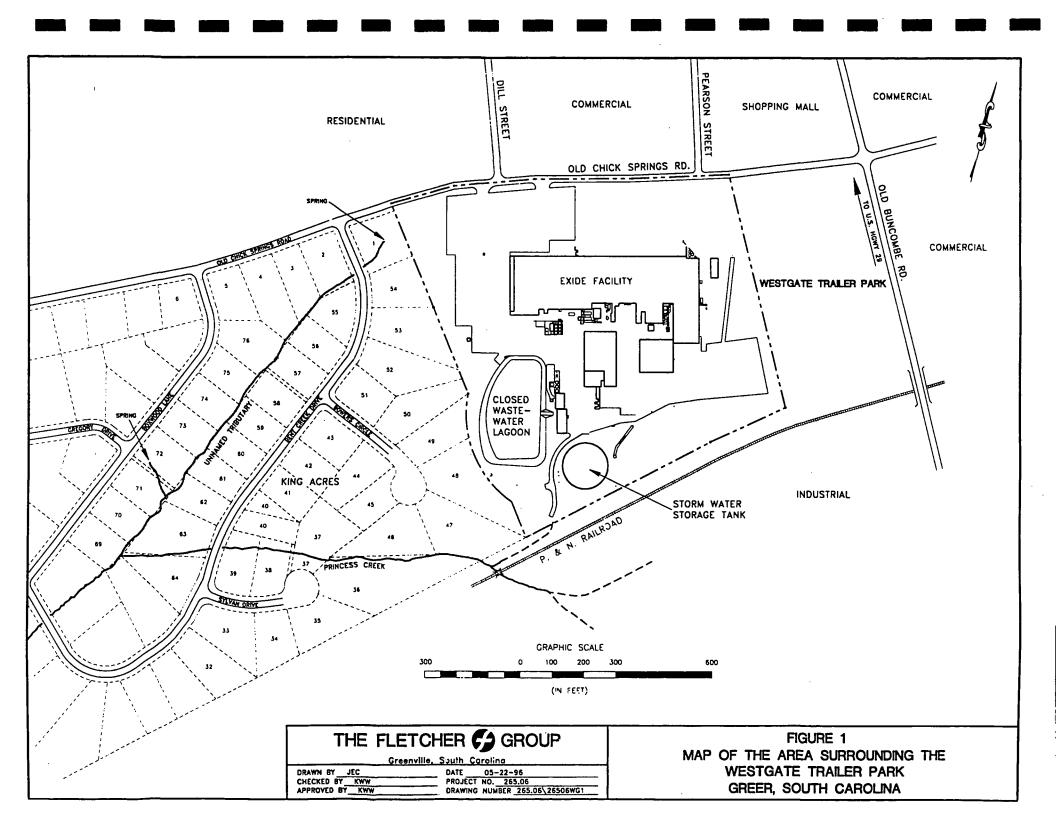
The Westgate Trailer Park is located at the intersection of Old Buncombe Road and Old Chick Springs Road in Greer, South Carolina (Figure 1). The trailer park was developed in the 1960's and consists of approximately 52 mobile homes located on a 5 acre tract. The Exide Corporation facility located immediately southwest of the trailer park has been used for the manufacture of lead acid batteries since the early 1960's.

In 1992, SC DHEC conducted investigations in the trailer park and determined that the soil did not present an environmental problem. In June 1994, under contract with the United States Environmental Protection Agency (US EPA), Roy F. Weston Inc. collected fifty (50) shallow soil samples (0-3 inches) for total lead analysis in the trailer park and six (6) of the samples contained total lead concentrations greater than 500 ppm. The US EPA removed the shallow soil from these six (6) areas in September 1994 (verbal communication with Warren Dixon, EPA).

The RI for the Westgate Trailer Park was designed to assess the current lead concentration in the surface soil throughout the trailer park as well as to recheck the concentration around the former removal action area. An assessment of potential source pathways for the lead concentrations was also conducted.

The RI involved the sampling and analysis of forty two (42) surface soil grab samples (0 to 3 inches in depth) located along the inner three (3) rows of trailers and two (2) grab samples (one surface, 0 to 3 inches, and one subsurface, 9 to 12 inches) from within a former removal action area. All the samples were analyzed for total lead. Fourteen (14) of the RI surface soil samples contained total lead concentrations greater than 500 ppm. The total lead concentrations for the samples collected from the former removal action area were less than 26 ppm.

Available air monitoring data does not indicate that emissions from the Exide facility contributed to soil impacts in the trailer park. No surface water runoff from the Exide facility flows in the direction of the trailer park, therefore, surface water runoff is not a possible contributor.



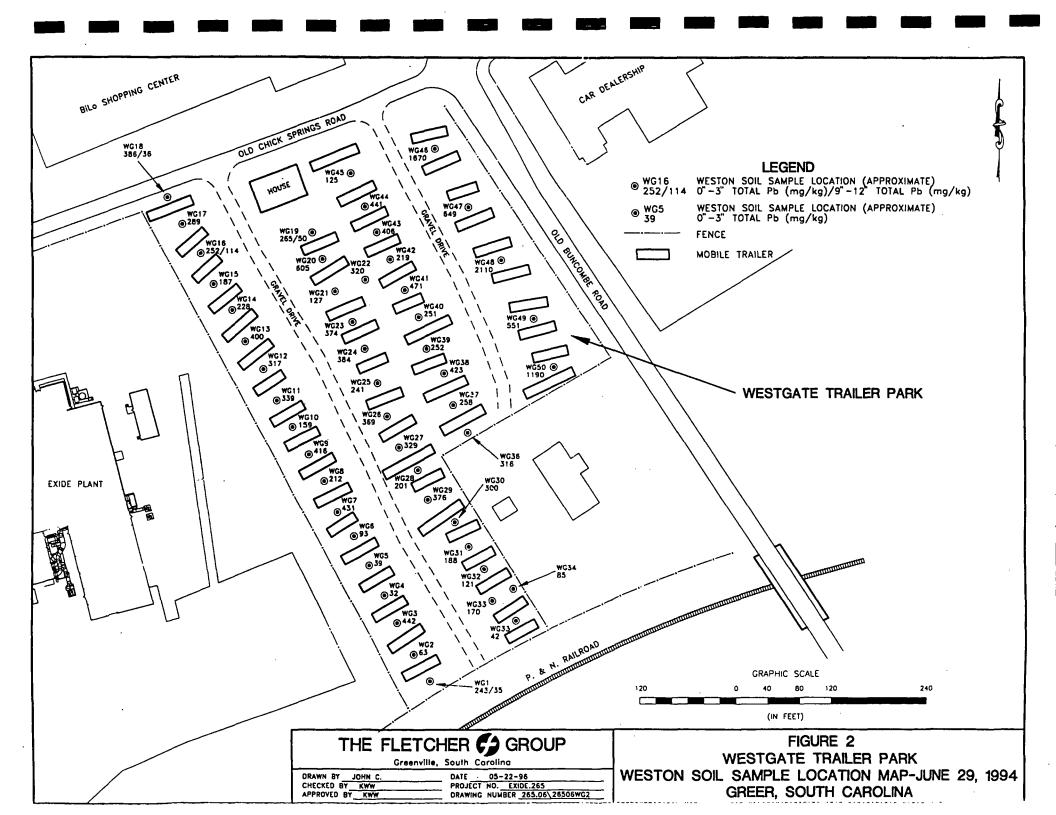
#### 2.0 Previous Investigations and Removal Actions

In 1992, SC DHEC conducted two (2) investigations in Westgate Trailer Park and found surface soil total lead concentrations ranging from 270 ppm to 800 ppm. Several of the samples were also analyzed for TCLP. The TCLP lead results were all less than 1 mg/l and, therefore, SC DHEC determined that the soil did not present an environmental problem (SC DHEC memo from Harold Seabrook to M. Anderson, dated May 28, 1992).

In June 1994, the US EPA, using Roy F. Weston as a contractor, and the SC DHEC conducted a follow-up soil sampling event. Fifty (50) surface soil samples and four (4) subsurface samples were collected and analyzed for total lead. Six (6) of the shallow soil samples exceeded a total lead concentration of 500 ppm. All six (6) samples with elevated lead concentrations were from locations along the row of trailers adjacent to Old Buncombe Road. All the subsurface soil samples had total lead concentrations of 114 ppm or less. In September 1994, the US EPA conducted a removal action in the six (6) areas with lead concentrations greater than 500 ppm. According to the soil removal work plan, a grid of approximately 10 to 15 feet around each of the six (6) sample locations was excavated. Clean soil was to have been backfilled into the excavations. The US EPA has not prepared a follow-up report documenting the activities conducted during the removal action. The approximate locations of the Weston soil samples are shown are Figure 2. The total lead concentrations reported are posted by each sample location.

SC DHEC also conducted a short term air monitoring program in the Westgate Trailer Park from December 1994 through May 1995. An air monitoring station was set up in the trailer park and was monitored by SC DHEC as a comparison to an air monitoring station located on Exide's property, near the trailer park. The results indicated a good correlation between the data recorded at the Exide air monitoring station and the station in the trailer park. The lead in-air monitored by the Exide station was well below the National Ambient Air Quality Standard (NAAQS) for lead, and the air-borne lead detected in the trailer park was consistently less than that recorded at the Exide station.

Correspondence and data from these previous investigations were included in the RI Work Plan.



Westgate Trailer Park Remedial Investigation Report January 1997

#### 3.0 Remedial Investigation Activities

The Remedial Investigation soil sampling was conducted on November 6, 1996 following written approval from SC DHEC of the revised work plan and authorization from the trailer park property owner. The soil sampling was performed in accordance with the procedures described in the work plan. New, disposable sampling equipment was used to avoid the possibility of cross-contamination between locations. All the sampling activities were documented in a bound field notebook and the actual sample locations were measured from permanent structures for location on the scaled map included as Figure 3. SC DHEC personnel were present during most of the sampling.

The soil sampling involved collecting forty three (43) surface soil grab samples and one (1) subsurface soil grab sample for total lead analysis. Forty two (42) of the surface soil samples were located in a grid across the western three rows in the trailer park. One surface soil and one subsurface soil sample was collected from an area where the US EPA had performed the 1994 removal action. The grid sample locations were laid out at 71 foot intervals beginning approximately 2 feet off the fence along the western side of the trailer park. Sample locations were adjusted where necessary to avoid structures.

All the surface soil grab samples were collected from a depth of 0 to 3 inches below the ground surface. The subsurface soil grab sample within the former removal action area was collected from in-place soils at a depth of 9 to 12 inches. Based upon visual appearance of the soil types and compaction, the backfill material appeared to extend to a depth of approximately 9 inches. All the soil samples were submitted for total lead analysis.

As a quality control measure, one (1) duplicate and three (3) blind duplicate soil samples were submitted to the laboratory. The blind duplicate sample numbers are proceeded by the number one (1), for example, the blind duplicate for sample WG-03 was WG-103. No equipment rinsate blanks were collected since no field decontamination was conducted.

Table 1 is a summary of the November 1996 RI total lead in soil data. The RI sample locations and analytical results are shown on Figure 2, with the total lead concentrations posted. Fourteen (14) of the surface soil samples had a total lead concentration greater than 500 ppm. These fourteen (14) locations are generally located along the northwest side of the trailer park and most are covered with a grass matte, vines, weeds or organic detritus. Pictures of representative sample locations are included in Appendix B. The laboratory report and chain of custody form is included in Appendix C. A summary of the duplicate

The Fletcher Group, Inc.

**Exide Corporation** 

Westgate Trailer Park Remedial Investigation Report January 1997

soil data is provided in Appendix D. The relative percent difference between the samples and the duplicate samples ranged from 4 to 41%. Three (3) of the duplicate sets had a relative percent difference of 7% or less. Only one sample, WG-32, had a relative percent difference of 41%. The difference in the WG-32 duplicate concentrations is likely due to the inhomogeneity of the soil sample.

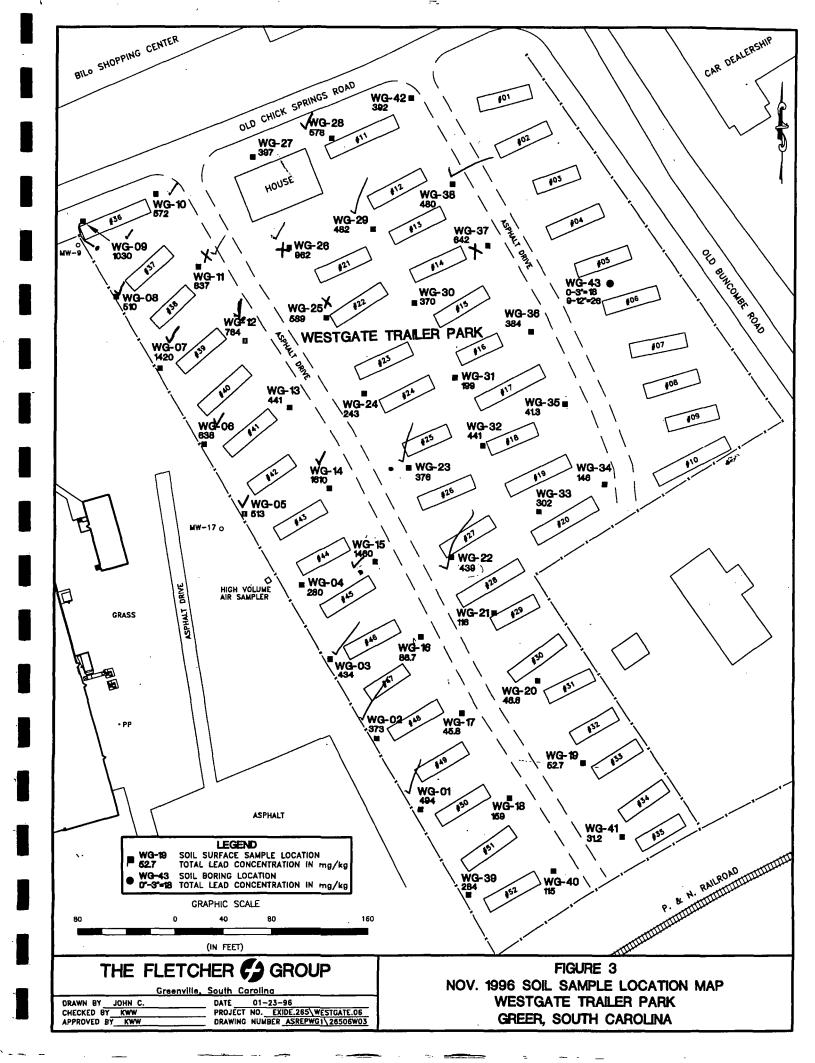


TABLE 1.

## SUMMARY OF NOV. 1996 SOIL LEAD CONCENTRATIONS WEST GATE TRAILER PARK

Page: 1A of 2A Date: 01/08/97

### (DEPTHS 0-3" AND 9-12")

			(DEPTHS 0-3	AND 0-12 /
SITE	DATE	DEPTH (m)	RESULT TYPE	Lead (mg/kg)
WG-01	11/06/96	0.000	Set 1	494
WG-02	11/06/96	0.000	Set 1	373
WG-03	11/06/96	0.000	Set 1	434
WG-04	11/06/96	0.000	Set 1	280
WG-05	11/06/96	0.000	Set 1	513
WG-06	11/06/96	0.000	Set 1	638
WG-07	11/06/96	0.000	Set 1	1420
WG-08	11/06/96	0.000	Set 1	510
WG-09	11/06/96	0.000	Set 1	1030
WG-10	11/06/96	0.000	Set 1	572
WG-11	11/06/96	0.000	Set 1	837
WG-12	11/06/96	0.000	Set 1	764
WG-13	11/06/96	0.000	Set 1	441
WG-14	11/06/96	0.000	Set 1	1610
WG-15	11/06/96	0.000	Set 1	1460
WG-16	11/06/96	0.000	Set 1	86.7
WG-17	11/06/96	0.000	Set 1	45.8
WG-18	11/06/96	0.000	Set 1	159
WG-19	11/06/96	0.000	Set 1	52.7
WG-20	11/06/96	0.000	Set 1	46.6
WG-21	11/06/96	0.000	Set 1	116
WG-22	11/06/96	0.000	Set 1	439
WG-23	11/06/96	0.000	Set 1	376
WG-24	11/06/96	0.000	Set 1	243
WG-25	11/06/96	0.000	Set 1	589
WG-26	11/06/96	0.000	Set 1	962
WG-27	11/06/96	0.000	Set 1	397
WG-28	11/06/96	0.000	Set 1	578
WG-29	11/06/96	0.000	Set 1	482
WG-30	11/06/96	0.000	Set 1	370
WG-31	11/06/96	0.000	Set 1	199
WG-32	11/06/96	0.000	Set 1	441
WG-33	11/06/96	0.000	Set 1	302
WG-34	11/06/96	0.000	Set 1	146

Values represent total concentrations unless noted < = Not detected at indicated reporting limit --- = Not analyzed

For RCL 7421TL

TABLE 1.

## SUMMARY OF NOV. 1996 SOIL LEAD CONCENTRATIONS WEST GATE TRAILER PARK

Page: 2A of 2A Date: 01/08/97

			(DEPTHS 0-3"	AND 9-12")
SITE	DATE	DEPTH (m)	RESULT Type	Lead (mg/kg)
WG-35	11/06/96	0.000	Set 1	41.3
WG-36	11/06/96	0.000	Set 1	384
WG-37	11/06/96	0.000	Set 1	642
WG-38	11/06/96	0.000	Set 1	480
WG-39	11/06/96	0.000	Set 1	284 ·
WG-40	11/06/96	0.000	Set 1	1115
WG-41	11/06/96	0.000	Set 1	31.2
WG-42 WG-43	11/06/96 11/06/96	0.000 0.000	Set 1 Set 1	392 18
WG-43	11/06/96	0.229	Set 1	25:7
an taona an ann an dean taon an				

Values represent total concentrations unless noted < = Not detected at indicated reporting limit --- = Not analyzed

For RCL 7421TL

Westgate Trailer Park Remedial Investigation Report

January 1997

#### 4.0 Review of Potential Sources of Lead in Soil

An evaluation of available lead-in-air concentrations measured at an Exide ambient air monitor station located near the trailer park was performed in attempt to determine if air emissions from the Exide facility may have contributed to soil impacts in the trailer park. The Exide air monitoring station located nearest to the trailer park is the #1 sampler (see Figure 4.) This data shows that the measured lead-in-air near the park has been below the National Ambient Air Quality Standard (NAAQS) for lead of 1.5  $ug/m^3$ , and has generally decreased over time. This indicates that emissions from the Exide facility have not caused residents of Westgate Trailer Park to be exposed to lead-in-air at levels above the NAAQS. The NAAQS defines a level of air quality that is protective of human health and the environment. This lead-in-air data is therefore also an indication that air emissions from the facility did not contribute to soil impacts in the trailer park.

Information on surface water runoff patterns was also evaluated to determine if surface water runoff may have been a contributor to lead concentrations found in the trailer park. Review of this information indicates that no surface water runoff from the facility flows in the direction of the park, therefore eliminating it as a possible contributor.

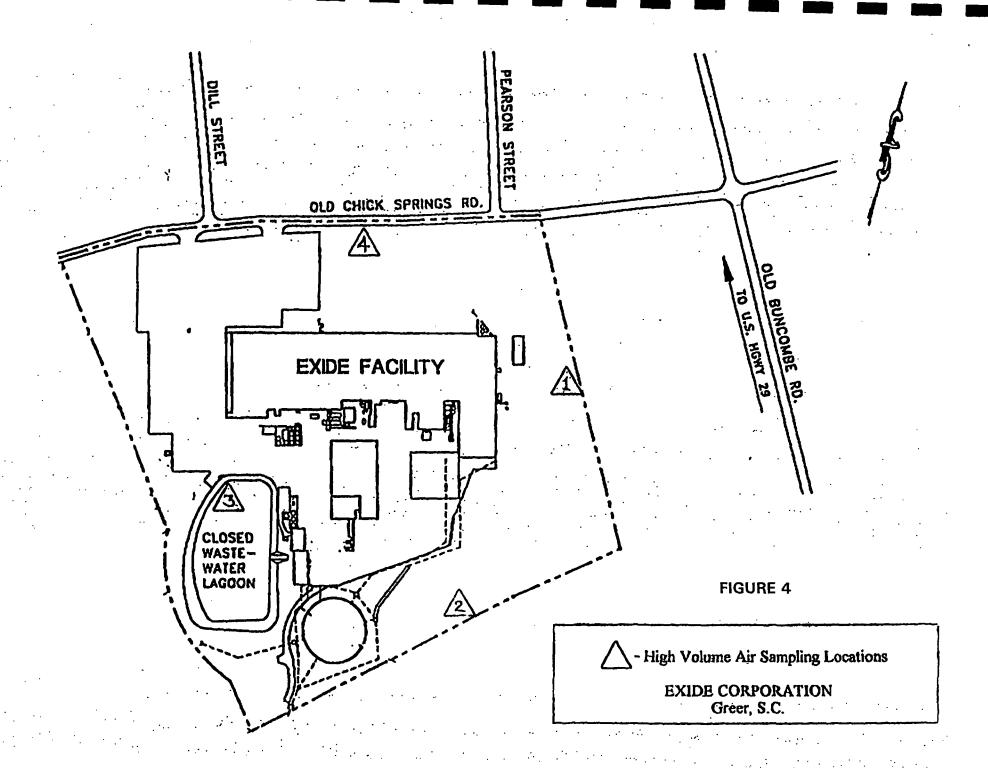


TABLE 2

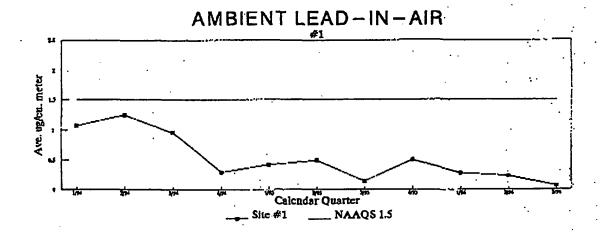
# AMBIENT AIR SAMPLING RESULTS #1

## QUARTERLY AVERAGES

## Lead-in-Air ug/cu. meter

Calendar	
Quarter	Site #1
1/94	1.08
2/94	1.25
3/94	0.96
4/94	0.29
1/95	0.42
2/95	0.49
3/95	0.14
4/95	0.50
1/96	0.28
2/96	0.23
3/96	0.06

National Ambient Air Quality Standard = 1.5 ug/cu. meter quarterly average



## Appendix A

Consent Order 96-12-HW

THIS IS A TRUE COPY OF DEPARTMENT OF HEALTH & ENVIRONMENTAL CONTROL PECORDS

THE STATE OF SOUTH CAROLINA

BEFORE THE DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL

IN RE: EXIDE CORPORATION
SCD 042 633 859
GREENVILLE COUNTY

CONSENT ORDER 96-12-HW

General Battery Corporation, a wholly-owned subsidiary of Exide Corporation, owns a lead-acid battery manufacturing facility in Greer, South Carolina, which is leased and operated by Exide Corporation ("facility" or "site").

#### FINDINGS OF FACT

In the early 1960's, Bowers Battery (which later changed its name to General Battery and Ceramic Corporation and in 1968, to General Battery Corporation) began operation at the Green facility. Exide Corporation began operation at the site in May of 1987.

An earthen lagoon was constructed at the facility in the early 1960's by Bowers Battery for the treatment of industrial wastewater. Subsequently the groundwater became contaminated with lead and sulfates. In 1977, General Battery Corporation constructed a neutralization system at the plant site for pretreatment of wastewater prior to discharge into the city sewer system. The lagoon was not used for the treatment of industrial wastewater after the completion of the pretreatment system and the lagoon was properly closed in 1982.

On June 8, 1984, the Department issued a permit for the construction of a groundwater recovery and treatment program for groundwater remediation. The recovery and treatment facility was constructed and remains in operation to date.

In April, 1986, the Department determined that the soil in the drainage areas at the back of the plant site was contaminated with lead. On July 8, 1986, Administrative Consent Order 86-36-SW between the Department and General Battery Corporation was executed which required the submitted of the site assessment plan for a comprehensive study of the facility to identify all areas of soil contamination. A site assessment was submitted by General Battery Corporation and approved by the Department to address contamination at the facility. During implementation of the approved plan, Exide Corporation removed approximately 1039 tons of contaminated soil, of which 854 tons were determined to be a characteristically hazardous waste for lead. The area where the soils were removed was limed at a rate of 2000 lbs/scre, graded and hydro-seeded. Ou August 24, 1990, Exide Corporation notified the Department that the soil remediation was complete.

On February 21, 1991, the Department received a citizen's complaint which was related to the removal of soil from the Enide plant site.

On February 22, 1991, Department personnel met with Exide representatives to discuss the citizen's complaint. Exide personnel told the Department that it was in the process of extending the raw materials container storage area at the site. The soil was excavated and stockpiled onsite, then regraded to allow for the proper fill material to be placed prior to the asphalt. It was determined that, on or about January 18, 1991, the unused, excavated soil was taken to Cochran Motors property, located at 1455 Wade Hampton Boulevard in Greenville County, where it was used as fill by the owner of the Cochran Motors' property. The Department and Exide collected split samples at the Cochran Motor's site. A composite sample was collected from various locations along the surface of the fill area. Exide's results, as analyzed and reported by an independent laboratory indicated a total lead concentration of 2100 ppm and a Toxicity Characteristic Leaching Procedure ("TCLP")

lead concentration of 73 ppm. Department results were 7500 ppm total lead. Based on Exide's results, the soil excavated from the Exide plant site and transported and disposed of offsite by Exide is considered a hazardous waste by characteristic.

On April 3, 1991, the Department issued a Notice of Violation to Exide citing violations and acheduling an enforcement conference for April 25, 1991, to discuss the cited violations. During the enforcement conference, Exide told the Department that on January 18, 1991, approximately 100 cubic yards of soil was removed from Exide's property and disposed of offsite by a contractor. (In an affidavit submitted by Exide on June 7, 1991, the contractor (T & G Construction) stated that it removed approximately 80 to 90 cubic yards from Exide's property).

On March 15, 1991, Exide initiated the removal of the contaminated soil from the Cochran Motors' fill site. The contaminated soil was transported by a permitted hazardous waste transporter to a permitted hazardous waste disposal facility.

On June 7, 1991, Exide submitted to the Department the "Final Report of Soil Clean-up/Remedial Activities" ("Report") to document the efforts which were undertaken by Exide to remove the soil from the Cochran Motors' property. A narrative was not included in the Report. The Department has determined the following based on information from the Report:

- 1) The Cochran Motors dump site is located on an area approximately 95 feet by 75 feet.

  A creek is located to the east of the dump site
- 2) Between March 15, 1991 and March 29, 1991, Exide excavated and removed four hundred two thousand, three hundred and eighty pounds (402,380 lbs.) of soil including lead contaminated soil with asphalt and gravel and delivered the material to a permitted hazardous waste disposal facility.

- 3) In order to verify the adequacy of Exide's removal activities, the Cochran Motors' fill site was divided into six areas for sampling. Also, two surface water samples were scheduled to be collected from the creek.
- On April 5, 1991, composite soil samples were collected and analyzed by Exide's consultant from each sample area. TCLP lead levels from the six sampling points were 13 mg/l, 12 mg/l, 21 mg/l, 11 mg/l, <.31 mg/l and 5 mg/l. Also, on April 5, 1991, two surface water grab samples were collected from the creek. Based upon data submitted by Exide, Sample #3 (upstream) results were .06 mg/l lead while sample #8 (downstream) results were .04 mg/l lead.
- 5) Following receipt of laboratory data for soil samples collected on April 5, 1991, Exide completed the excavation and disposal of additional soil from the Cochran Motors' site. On April 22, 1991, grab soil samples were collected (with the exception of sample area #6 from which no additional soil was removed) to verify the adequacy of the second removal. TCLP lead levels from five sample points were reported as 10 mg/l, .2 mg/l, .5 mg/l, .14 mg/l, and .04 mg/l. Following receipt of the data, Exide initiated additional removal of soil a sample area #1.
- Between April 22, 1991 and May 22, 1991, one hundred sixteen thousand, five hundred and sixty pounds (116,560 lbs.) of soil including lead contaminated soil with asphalt and gravel was excavated from the Cochran Motors' site by Exide. During the entire removal process, Exide excavated five hundred eighteen thousand, nine hundred and forty pounds (518,940 lbs.) of soil including lead contaminated soil with asphalt and gravel and delivered the material to the hazardous waste disposal facility.
- 7) On May 23, 1991, a soil grab sample was collected from sample area #1. Exide's results indicated a total lead concentration of 190 mg/kg and a TCLP lead concentration of 2.8 mg/L.

On August 1, 1991, Exide submitted to the Department a narrative explaining the sampling and remediation activities at the Cochran Motors' site. The narrative included number and locations of soil composite samples and a review of reasons for the collection and analysis of soil samples during the second and third sampling rounds.

On August 16, 1991, the Department issued a letter to Exide requesting that arrangements be initiated with the Department to conduct additional sampling at the Cochran Motors' site to determine background conditions.

On November 4, 1991, the Department received the results from additional sampling conducted by Exide at the Cochran Motors' site and determined that restoration of the site should commence as soon as possible.

## CONCLUSIONS OF LAW

Exide has violated the South Carolina Hazardous Waste Management Regulations, 25 S.C. Code Regs. 61-79 (Law Co-op. 1976 & Supp. 1994), promulgated pursuant to the South Carolina Hazardous Waste Management Regulations, South Carolina Code Ann. Sections 44-56-10 et seq. (Law Co-op. 1976 & Supp. 1994). Exide has violated the following:

- 1) R.61-79.262.11, for failure to make a hazardous waste determination;
- 2) R.61-79.262.12(c), for offering hazardous waste to a transporter or disposal facility that has not received an EPA Identification Number and a Department permit;
- 3) R.61-79.262.20(a), for not preparing a manifest before offering hazardous waste for transportation offsite;
- 4). R 61-79.262 Subpart C, Pre-Transport Requirements, for failure to properly package,
  :
  label, mark and placard hazardous waste before offering the hazardous waste for transportation

offsite;

S) R.61-79,270,1(b), for disposing of a hazardous waste without first applying for and receiving a Department permit for that activity.

Also, Exide has violated the Pollution Control Act, South Carolina Code Ann. Sections 48-110 st seq. (Law Co-op 1976 & Supp. 1994) in that it is unlawful for any person, directly or indirectly, to throw, drain, run, allow to seep or otherwise discharge into the environment of the State organic or inorganic matter, including sewage, industrial wastes and other wastes, except as in compliance with a permit issued by the Department.

NOW THEREFORE IT IS ORDERED with the consent of Exide and pursuant to Sections 48-1-50, 44-56-130, and 44-56-140 of said Code, as amended, that Exide agrees to the following:

- 1) Ensure future compliance with the South Carolina Hazardous Waste Management Regulations;
  - 2) Ensure future compliance with the Pollution Control Act;
- 3) Within thirty (30) days of the effective date of this order, provide to the Department for approval, documentation that the Cochran Motors' site has been properly remediated and restored;
- Within thirty (30) days of the effective date of this order, submit, to the Department for approval, a Site Assessment Work Plan ("SAWP") for the entire Exide facility, to identify areas of soil lead contamination and potential soil lead contamination at the site. The SAWP shall address all areas where spillage and runoff might have occurred, or could occur, causing an adverse impact to the environment, including vegetated areas and covered areas including, but not limited to, asphalt and concrete parking areas. The SAWP shall evaluate the vertical and horizontal extent of lead contamination and potential lead contamination. The SAWP shall also include a schedule for all

major work activities under the SAWP. Within thirty (30) days of notification of approval of the SAWP by the Department, Exide will initiate the soil sampling in accordance with the approved plan and schedule.

- Within forty-five (45) days of completion of the work required under the SAWP, Exide shall submit a written report to the Department outlining all sample results. This report shall also include, for Department approval, a Remediation Plan for the proper remediation of any soil or groundwater contamination consistent with continued use of the facility and land use in the area. Remediation in accordance with the Department approved Remediation Plan shall begin within thirty (30) days of Department approval of said plan. A final report shall be submitted to the Department, within thirty (30) days of completing remediation, to document remedial activities.
- 6) Within thirty (30) days of Department approval of the written report submitted after completion of the Focused Investigation/Study Work Plan for the Kings Acres Subdivision as described in Consent Agreement 95-30-HW, submit to the Department a remediation plan to address removal and proper disposal of all soils with a total lead level value as deemed necessary by the Department.
- 7) Within sixty (60) days of the effective date of this order, submit to the Department a Remedial Investigation Work Plan ("RI") to investigate lead contamination in the Westgate Trailer Park. The RI shall include, but not be limited to, investigation of the source(s), adequate delineation of all potential areas of contamination, evaluation of remedial alternatives and a Risk Assessment for Westgate Trailer Park as deemed necessary by the Department.
- 8) If the Department determines that remediation of the Westgate Trailer Park is necessary, Exide shall submit a Remediation Plan for Westgate Trailer Park to address removal and

proper disposal of all contaminated soils as deemed necessary by the Department. This Remediation Plan shall include an approvable schedule for all major work activities described in the Remediation Plan.

- 9) All plans submitted to the Department for approval shall be consistent with the technical intent of the National Contingency Plan. All Occupational Safety and Health Act (OSHA) regulations and protocols shall be followed.
- If any event occurs which causes or may cause a delay in meeting any of the above-10) scheduled dates for completion of any specified activity pursuant to the approved Work Plan, Exide shall notify the Department in writing at least five (5) days before the scheduled date. Exide shall describe in detail the anticipated length of the delay, the precise cause or causes of delay, if ascertainable, the measures taken or to be taken to prevent or minimize the delay, and the timetable by which Exide proposes that those measures will be implemented. The Department shall provide written notice to Exide as soon as practicable that a specific extension of time has been granted or that no extension has been granted. An extension shall be granted for any scheduled activity delayed by an event of force majeure which shall mean any event arising from causes beyond the control of Exide that causes a delay in or prevents the performance of any of the conditions under this Consent Order including, but not limited to: a) acts of God, fire, war, insurrection, civil disturbance, explosion: b) adverse weather conditions that could not be reasonably anticipated causing unusual delay in transportation and/or field work activities; c) restraint by court order or order of public authority; d) inability to obtain, after exercise of reasonable diligence and timely submittal of all applicable applications, any necessary authorizations, approvals, permits, or licenses due to action or inaction of any governmental agency or authority; and e) delays caused by compliance with

applicable statutes or regulations governing contracting, procurement or acquisition procedures, despite the exercise of reasonable diligence by Exide. Events which are not force majeure include by example, but are not limited to, unanticipated or increased costs of performance, changed economic circumstances, normal precipitation events, or failure by Exide to exercise due diligence in obtaining governmental permits or performing any other requirement of this Order or any procedure necessary to provide performance pursuant to the provisions of this Order. Any extension shall be granted at the sole discretion of the Department, incorporated by reference as an enforceable part of this Consent Order, and, thereafter, be referred to as an attachment to the Consent Order.

- to representatives of Exide, its consultants, contractors and invited guests except as modified herein. Employees of the Department and the EPA and their respective consultants and contractors will not be denied access during normal business hours or at any time work under the approved Work Plan is being performed or during any environmental emergency or imminent threat situation, as determined by the Department (or as permitted by applicable law). Exide shall make reasonable efforts (which shall include but not be limited to written requests to the property owners requesting access, describing the activity for which access is requested, and a commitment to return the property to the condition it was in prior to the activity for which Exide sought access) to gain access to any property not owned by Exide but affected by the work in this Consent Order. The Department shall not be a party to any contract, lease, or other agreement between Exide and the property owner. The Department shall determine in its discretion whether Exide has made good faith efforts to obtain access to any property necessary to comply with this Order.
  - 12) With regards to third party actions, Exide does not admit, accept or concede the

Findings of Fact or Conclusions of Law set forth in this Consent Order and specifically reserves the right to contest any such Findings of Fact or Conclusions of Law in any third party action regarding the Site. The Consent Order shall be admissible in any enforcement action brought by the Department but may not be utilized by third parties against Exide as proof of any allegations, findings or conclusions contained herein.

13) Exide specifically denies any responsibility for response costs or damages, and does not, by signing this Consent Order, waive any rights which it may have to assert any claims in law or equity against any other person, company or entity with respect to the Site.

of this Order shall be deemed a violation of the South Carolina Hazardous Waste Management Act and the South Carolina Pollution Control Act and therefore shall be deemed unlawful. Upon ascertaining any such violation, the Department may promptly initiate appropriate action to obtain compliance with both this Order and the aforesaid Acts including but not limited to the assessment of a civil penalty of up to the statutory limit of twenty-five thousand dollars (\$25,000.00) per day per violation for the violations cited herein.

THE SOUTH CAROLINA DEPARTMENT OF
HEALTH AND ENVIRONMENTAL CONTROL

BY: Douglas Bryant, Commissioner

Aprol 3 1884

WE CONSENT:

DATE: 4/9/96

Um Glaw

**EXIDE CORPORATION** 

10

Dain Lufland	DATE: Opt 3/996
THE SOUTH CAROLINA DEPARTMEN	T OF HEALTH AND ENVIRONMENTAL CONTRO
Hartsill W. Truesdale, P.E., Chief Bureau of Solid and Hazardous Waste Management	DATE: 4/9/96
Approved by: Legal Office	DATE: 4/9/94

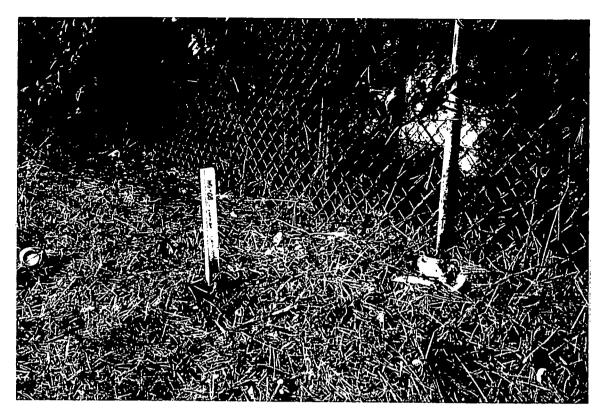
# Appendix B Representative Sample Location Photographs



Sample Location WG-06 Westgate Trailer Park



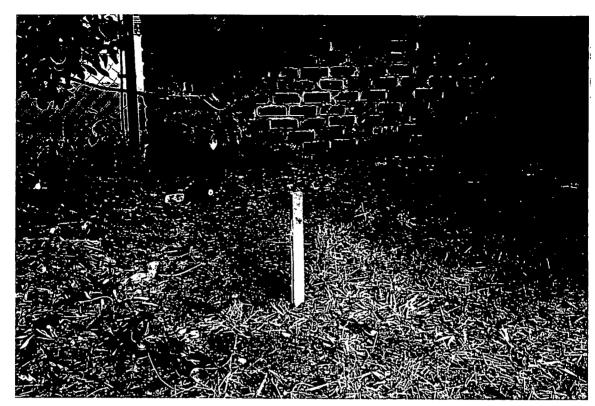
Sample Location WG-07 Westgate Trailer Park



Sample Location WG-08 Westgate Trailer Park



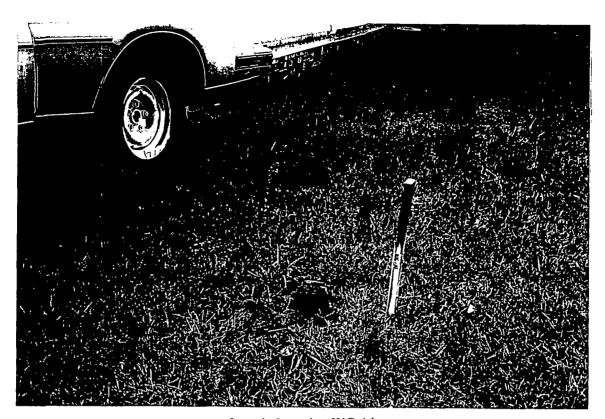
Sample Location WG-09 Westgate Trailer Park



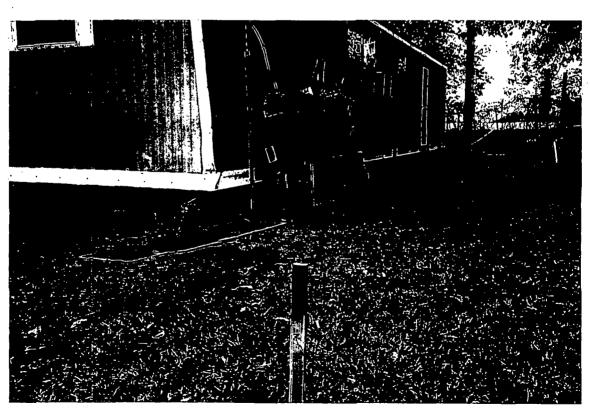
Sample Location WG-10 Westgate Trailer Park



Sample Location WG-11 Westgate Trailer Park



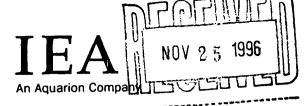
Sample Location WG-14 Westgate Trailer Park



Sample Location WG-15 Westgate Trailer Park

Appendix C Laboratory Report and Chain of Custody Form





November 21, 1996

Kathy Webb
Fletcher Group
Datastream Building
30 Bruce Road, Suite 101
Greenville, SC 29605

IEA Project No.:

1834021/9611209

IEA Reference No.:

W9611190

Client Project I.D.: 265.06 Westgate Trailer Park

Dear Ms. Webb,

Transmitted herewith are the results of analyses on 48 samples submitted to our laboratory.

The samples were received intact.

Analyses were performed according to approved methodologies and meet the requirements of the IEA Quality Assurance Program except where noted. Please see the enclosed reports for your results and a copy of the Chain of Custody documentation.

Thank you for selecting IEA for your sample analysis. Please do not hesitate to call me at 1-919-677-0090 or 1-800-444-9919 should you have any questions regarding this report. We look forward to serving you in the future.

Very truly yours,

IEA, Inc.

Darlene R. Branoff Project Manager

Monroe, Connecticut 203-261-4458 Schaumburg, Illinois 847-705-0740 N. Billerica, Massachusetts 508-667-1400 Whippany, New Jersey 201-428-8181



IEA Project #: 1834\_021
TEA Sample #: 961120901

IEA Sample #: 961120901 Matrix: SOIL

Client Name: Fletcher Group Date Received: 11/08/96 Client Proj. I.D.: 265.06 Westgate Trailer Park Date Sampled: 11/06/96

Sample I.D.: WG-09

Quant Result Date Date IEA Prep Parameter Method Limit (mg/kg) Prepared Analyzed Analyst Run Batch

LEAD SW846 6010 0.378 1030 11/12/96 11/14/96 RH R8743 11129607P

Comments:

IEA Project #: 1834\_021

IEA Sample #: 961120902 Matrix: SOIL

Client Name: Fletcher Group Date Received: 11/08/96 Client Proj. I.D.: 265.06 Westgate Trailer Park Date Sampled: 11/06/96

Sample I.D.: WG-08

Quant

IEA

Prep

Parameter Method Limit (mg/kg) Prepared Analyzed Analyst Run Batch

LEAD SW846 6010 Ø.346 510. 11/12/96 11/14/96 RH R8743 11129607P

Result Date

Comments:

IEA Project #: 1834\_021

IEA Sample #: 961120903 Matrix: SOIL

Client Name: Fletcher Group Date Received: 11/08/96 Client Proj. I.D.: 265.06 Westgate Trailer Park Date Sampled: 11/06/96

sample I.D.: WG-07

Quant Result Date Date IEA Prep Parameter Method Limit (mg/kg) Prepared Analyzed Analyst Run Batch

EAD SW846 6010 0.353 1420 11/12/96 11/14/96 RH R8743 11129607P

comments:

IEA Project #: 1834\_021 IEA Sample #: 961120904

IEA Sample #: 961120904 Matrix: SOIL

Client Name: Fletcher Group Date Received: 11/08/96 Client Proj. I.D.: 265.06 Westgate Trailer Park Date Sampled: 11/06/96

Sample I.D.: WG-06

Quant Result Date Date IEA Prep Parameter Method Limit (mg/kg) Prepared Analyzed Analyst Run Batch

LEAD SW846 6010 0.338 638. 11/12/96 11/14/96 RH R8743 11129607P

Commente.

IEA Project #: 1834\_021

IEA Sample #: 961120905 Matrix: SOIL

Client Name: Fletcher Group Date Received: 11/08/96
Client Proj. I.D.: 265.06 Westgate Trailer Park Date Sampled: 11/06/96

Sample I.D.: WG-13

Quant Result Date Date IEA Prep Parameter Method Limit (mg/kg) Prepared Analyzed Analyst Run Batch

LEAD SW846 6010 0.328 441. 11/12/96 11/14/96 RH R8743 11129607P

Comments:

IEA Project #: 1834\_021

IEA Sample #: 961120906 Matrix: SOIL

Client Name: Fletcher Group Date Received: 11/08/96
Client Proj. I.D.: 265.06 Westgate Trailer Park Date Sampled: 11/06/96

Sample I.D.: WG-12

Quant Result Date Date IEA Prep Parameter Method Limit (mg/kg) Prepared Analyzed Analyst Run Batch

LEAD SW846 6010 0.438 764. 11/12/96 11/14/96 RH R8743 11129607P

Comments:

IEA Project #: 1834\_021 IEA Sample #: 961120907

IEA Sample #: 961120907 Matrix: SOIL

Client Name: Fletcher Group Date Received: 11/08/96 Client Proj. I.D.: 265.06 Westgate Trailer Park Date Sampled: 11/06/96

Sample I.D.: WG-11

Quant Result Date Date IEA Prep Parameter Method Limit (mg/kg) Prepared Analyzed Analyst Run Batch

EAD SW846 6010 0.349 837. 11/12/96 11/14/96 RH R8743 11129607P

Comments:

IEA Project #: 1834\_021

IEA sample #: 961120908 Matrix: SOIL

Client Name: Fletcher Group Date Received: 11/08/96 Client Proj. I.D.: 265.06 Westgate Trailer Park Date Sampled: 11/06/96

Sample I.D.: WG-10

Quant Result Date Date IEA Prep Parameter Method Limit (mg/kg) Prepared Analyzed Analyst Run Batch

LEAD SW846 6010 0.324 572. 11/12/96 11/14/96 RH R8743 11129607P

Comments:

IEA Project #: 1834\_021 IEA sample #: 961120909

IEA Sample #: 961120909 Matrix: SOIL
Client Name: Fletcher Group Date Received: 11/08/96

Client Name: Fletcher Group Date Received: 11/08/96
Client Proj. I.D.: 265.06 Westgate Trailer Park Date Sampled: 11/06/96

Sample I.D.: WG-14

Quant Result Date Date IEA Prep Parameter Method Limit (mg/kg) Prepared Analyzed Analyst Run Batch

LEAD SW846 6010 0.357 1610 11/12/96 11/14/96 RH R8743 11129607P

Comments:

IEA Project #: 1834\_021

TEA Sample #: 961120910 Matrix: SOIL
Client Name: Fletcher Group Date Received: 11/08/9

Client Name: Fletcher Group Date Received: 11/08/96

Client Proj. I.D.: 265.06 Westgate Trailer Park Date Sampled: 11/06/96

Sample I.D.: WG-05

Quant Result Date Date IEA Prep Parameter Method Limit (mg/kg) Prepared Analyzed Analyst Run Batch

LEAD SW846 6010 0.350 513. 11/12/96 11/14/96 RH R8743 11129607P

#### Comments:

IEA Project #: 1834\_021 IEA Sample #: 961120911

IEA Sample #: 961120911 Matrix: SOIL

Client Name: Fletcher Group Date Received: 11/08/96 Client Proj. I.D.: 265.06 Westgate Trailer Park Date Sampled: 11/06/96

Sample I.D.: WG-15

Quant Result Date Date IEA Prep Parameter Method Limit (mg/kg) Prepared Analyzed Analyst Run Batch

LEAD SW846 6010 0.412 1460 11/12/96 11/14/96 RH R8743 11129607P

Comments:

IEA Project #: 1834\_021

IEA Sample #: 961120912 Matrix: SOIL

Client Name: Fletcher Group Date Received: 11/08/96 Client Proj. I.D.: 265.06 Westgate Trailer Park Date Sampled: 11/06/96

Sample I.D.: WG-04

Quant Result Date Date IEA Prep Parameter Method Limit (mg/kg) Prepared Analyzed Analyst Run Batch

LEAD SW846 6010 0.328 280. 11/12/96 11/14/96 RH R8743 11129607P

Comments:

IEA Project #: 1834\_021

IEA Sample #: 961120913 Matrix: SOIL

Client Name: Fletcher Group Date Received: 11/08/96 Client Proj. I.D.: 265.06 Westgate Trailer Park Date Sampled: 11/06/96

Sample I.D.: WG-16

Quant Result Date Date IEA Prep Parameter Method Limit (mg/kg) Prepared Analyzed Analyst Run Batch

LEAD SW846 6010 0.319 86.7 11/12/96 11/14/96 RH R8743 11129607P

#### Comments:

IEA Project #: 1834\_021 IEA Sample #: 961120914

IEA Sample #: 961120914 Matrix: SOIL

Client Name: Fletcher Group Date Received: 11/08/96
Client Proj. I.D.: 265.06 Westgate Trailer Park Date Sampled: 11/06/96

Sample I.D.: WG-03

Quant Result Date Date IEA Prep Parameter Method Limit (mg/kg) Prepared Analyzed Analyst Run Batch

LEAD SW846 6010 0.362 434. 11/12/96 11/14/96 RH R8743 11129607P

Comments:

IEA Project #: 1834\_021

IEA Sample #: 961120915 Matrix: SOIL

Client Name: Fletcher Group Date Received: 11/08/96 Client Proj. I.D.: 265.06 Westgate Trailer Park Date Sampled: 11/06/96

Sample I.D.: WG-103

Quant Result Date Date IEA Prep Parameter Method Limit (mg/kg) Prepared Analyzed Analyst Run Batch

LEAD SW846 6010 0.355 453. 11/12/96 11/14/96 RH R8743 11129607P

Comments:

IEA Project #: 1834\_021

IEA Sample #: 961120916 Matrix: SOIL

Client Name: Fletcher Group Date Received: 11/08/96
Client Proj. I.D.: 265.06 Westgate Trailer Park Date Sampled: 11/06/96

Sample I.D.: WG-17

Quant Result Date Date IEA Prep Parameter Method Limit (mg/kg) Prepared Analyzed Analyst Run Batch

LEAD SW846 6010 0.306 45.8 11/12/96 11/14/96 RH R8743 11129607P

Comments:

IEA Project #: 1834 021

IEA Sample #: 961120917 Matrix: SOIL

Client Name: Fletcher Group Date Received: 11/08/96 Client Proj. I.D.: 265.06 Westgate Trailer Park Date Sampled: 11/06/96

Sample I.D.: WG-02

Quant Result Date Date IEA Prep Parameter Method Limit (mg/kg) Prepared Analyzed Analyst Run Batch

LEAD SW846 6010 0.362 373. 11/12/96 11/14/96 RH R8743 11129607P

Comments:

IEA Project #: 1834\_021

IEA Sample #: 961120918

Matrix: SOIL
Client Name: Fletcher Group

Client Name: Fletcher Group Date Received: 11/08/96 Client Proj. I.D.: 265.06 Westgate Trailer Park Date Sampled: 11/06/96

Sample I.D.: WG-18

Quant Result Date Date IEA Prep Parameter Method Limit (mg/kg) Prepared Analyzed Analyst Run Batch

LEAD SW846 6010 0.308 159. 11/12/96 11/14/96 RH R8743 11129607P

Comments:

IEA Project #: 1834\_021

IEA Sample #: 961120919 Matrix: SOIL

Client Name: Fletcher Group Date Received: 11/08/96
Client Proj. I.D.: 265.06 Westgate Trailer Park Date Sampled: 11/06/96

Sample I.D.: WG-01

Quant Result Date Date IEA Prep Parameter Method Limit (mg/kg) Prepared Analyzed Analyst Run Batch

LEAD SW846 6010 0.368 494. 11/12/96 11/14/96 RH R8743 11129607P

Comments:

TEN Comple #: 1834\_021

IEA Sample #: 961120920 Matrix: SOIL

Client Name: Fletcher Group Date Received: 11/08/96 Client Proj. I.D.: 265.06 Westgate Trailer Park Date Sampled: 11/06/96

Sample I.D.: WG-40

Quant Result Date Date IEA Prep Parameter Method Limit (mg/kg) Prepared Analyzed Analyst Run Batch

LEAD SW846 6010 0.309 115. 11/12/96 11/14/96 RH R8743 11129607P

#### Comments:

IEA Project #: 1834\_021

IEA Sample #: 961120921 Matrix: SOIL

Client Name: Fletcher Group Date Received: 11/08/96 Client Proj. I.D.: 265.06 Westgate Trailer Park Date Sampled: 11/06/96

Sample I.D.: WG-39

Quant Result Date Date IEA Prep Parameter Method Limit (mg/kg) Prepared Analyzed Analyst Run Batch

LEAD SW846 6010 0.350 284. 11/12/96 11/14/96 MH R8747 11129608P

Comments:

IEA Project #: 1834\_021
IEA Sample #: 961120922

TEA Sample #: 961120922 Matrix: SOIL

Client Name: Fletcher Group Date Received: 11/08/96 Client Proj. I.D.: 265.06 Westgate Trailer Park Date Sampled: 11/06/96

Sample I.D.: WG-41

Quant Result Date Date IEA Prep Parameter Method Limit (mg/kg) Prepared Analyzed Analyst Run Batch

LEAD SW846 6010 0.341 31.2 11/12/96 11/15/96 MH R8747 11129608P

Comments:

IEA Project #: 1834\_021

IEA Sample #: 961120923 Matrix: SOIL

Client Name: Fletcher Group Date Received: 11/08/96
Client Proj. I.D.: 265.06 Westgate Trailer Park Date Sampled: 11/06/96

Sample I.D.: WG-19

Quant Result Date Date IEA Prep Parameter Method Limit (mg/kg) Prepared Analyzed Analyst Run Batch

LEAD SW846 6010 0.305 52.7 11/12/96 11/15/96 MH R8747 11129608P

Comments:

IEA Project #: 1834\_021 IEA Sample #: 961120924

TEA Sample #:  $9611\overline{2}0924$  Matrix: SOIL Client Name: Fletcher Group Date Received: 11/08/96

Client Name: Fletcher Group Date Received: 11/08/96 Client Proj. I.D.: 265.06 Westgate Trailer Park Date Sampled: 11/06/96

Sample I.D.: WG-20

Quant Result Date Date IEA Prep Parameter Method Limit (mg/kg) Prepared Analyzed Analyst Run Batch

LEAD SW846 6010 0.307 46.6 11/12/96 11/15/96 MH R8747 11129608P

Comments:

IEA Project #: 1834\_021

IEA Sample #: 961120925 Matrix: SOIL

Client Name: Fletcher Group Date Received: 11/08/96
Client Proj. I.D.: 265.06 Westgate Trailer Park Date Sampled: 11/06/96

Sample I.D.: WG-21

Quant Result Date Date IEA Prep Parameter Method Limit (mg/kg) Prepared Analyzed Analyst Run Batch

EAD SW846 6010 0.344 116. 11/12/96 11/15/96 MH R8747 11129608P

Comments:

IEA Project #: 1834\_021

IEA Sample #: 961120926 Matrix: SOIL

Client Name: Fletcher Group Date Received: 11/08/96 Client Proj. I.D.: 265.06 Westgate Trailer Park Date Sampled: 11/06/96

Sample I.D.: WG-22

Quant Result Date Date IEA Prep Parameter Method Limit (mg/kg) Prepared Analyzed Analyst Run Batch

LEAD SW846 6010 0.367 439. 11/12/96 11/15/96 MH R8747 11129608P

Comments:

IEA Project #: 1834\_021

IEA Sample #: 961120927 Matrix: SOIL
Client Name: Fletcher Group Date Received: 11/08/96

Client Proj. I.D.: 265.06 Westgate Trailer Park Date Sampled: 11/06/96

Sample I.D.: WG-23

Quant Result Date Date IEA Prep Parameter Method Limit (mg/kg) Prepared Analyzed Analyst Run Batch

EAD SW846 6010 0.350 376. 11/12/96 11/15/96 MH R8747 11129608P

Comments:

IEA Project #: 1834\_021

IEA Sample #: 961120928 Matrix: SOIL

Client Name: Fletcher Group Date Received: 11/08/96 Client Proj. I.D.: 265.06 Westgate Trailer Park Date Sampled: 11/06/96

Sample I.D.: WG-24

Quant Result Date Date IEA Prep Parameter Method Limit (mg/kg) Prepared Analyzed Analyst Run Batch

LEAD SW846 6010 0.318 243. 11/12/96 11/15/96 MH R8747 11129608P

Comments:

IEA Project #: 1834\_021

IEA Sample #: 961120929 Matrix: SOIL

Client Name: Fletcher Group

Client Proj. I.D.: 265.06 Westgate Trailer Park

Date Received: 11/08/96

Date Sampled: 11/06/96

Sample I.D.: WG-25

Quant Result Date Date IEA Prep Parameter Method Limit (mg/kg) Prepared Analyzed Analyst Run Batch

EAD SW846 6010 0.335 589. 11/12/96 11/15/96 MH R8747 11129608P

Comments:

IEA Project #: 1834\_021

IEA Sample #: 961120930 Matrix: SOIL

Client Name: Fletcher Group Date Received: 11/08/96
Client Proj. I.D.: 265.06 Westgate Trailer Park Date Sampled: 11/06/96

Sample I.D.: WG-26

Quant Result Date Date IEA Prep Parameter Method Limit (mg/kg) Prepared Analyzed Analyst Run Batch

LEAD SW846 6010 0.346 962. 11/12/96 11/15/96 MH R8747 11129608P

Comments:

IEA Project #: 1834\_021

IEA Sample #: 961120931 Matrix: SOIL

Client Name: Fletcher Group
Client Proj. I.D.: 265.06 Westgate Trailer Park
Date Received: 11/08/96
Date Sampled: 11/06/96

Sample I.D.: WG-27

Quant Result Date Date IEA Prep Parameter Method Limit (mg/kg) Prepared Analyzed Analyst Run Batch

EAD SW846 6010 0.345 397. 11/12/96 11/15/96 MH R8747 11129608P

comments:

IEA Project #: 1834\_021

IEA Sample #: 961120932 Matrix: SOIL

Client Name: Fletcher Group Date Received: 11/08/96 Client Proj. I.D.: 265.06 Westgate Trailer Park Date Sampled: 11/06/96

Sample I.D.: WG-28

Quant Result Date Date IEA Prep Parameter Method Limit (mg/kg) Prepared Analyzed Analyst Run Batch

LEAD SW846 6010 Ø.383 578. 11/12/96 11/15/96 MH R8747 11129608P

Comments:

IEA Project #: 1834\_021

IEA Sample #: 961120933 Matrix: SOIL
Client Name: Fletcher Group Date Received: 11/08/96

Client Proj. I.D.: 265.06 Westgate Trailer Park Date Sampled: 11/06/96

Sample I.D.: WG-128

Quant Result Date Date IEA Prep Parameter Method Limit (mg/kg) Prepared Analyzed Analyst Run Batch

EAD SW846 6010 0.361 601. 11/12/96 11/15/96 MH R8747 11129608P

Comments:

IEA Project #: 1834\_021

IEA Sample #: 961120934 Matrix: SOIL

Client Name: Fletcher Group Date Received: 11/08/96
Client Proj. I.D.: 265.06 Westgate Trailer Park Date Sampled: 11/06/96

Sample I.D.: WG-42

Quant Result Date Date IEA Prep Parameter Method Limit (mg/kg) Prepared Analyzed Analyst Run Batch

LEAD SW846 6010 0.332 392. 11/12/96 11/15/96 MH R8747 11129608P

Comments:

IEA Project #: 1834\_021

IEA Sample #: 961120935 Matrix: SOIL

Client Name: Fletcher Group Date Received: 11/08/96
Client Proj. I.D.: 265.06 Westgate Trailer Park Date Sampled: 11/06/96

Sample I.D.: WG-29

Quant Result Date Date IEA Prep Parameter Method Limit (mg/kg) Prepared Analyzed Analyst Run Batch

EAD SW846 6010 0.339 482. 11/12/96 11/15/96 MH R8747 11129608P

comments:

IEA Project #: 1834\_021 IEA Sample #: 961120936

IEA Sample #: 961120936 Matrix: SOIL
Client Name: Fletcher Group Date Received: 11/08/96

Client Name: Fletcher Group Date Received: 11/08/96
Client Proj. I.D.: 265.06 Westgate Trailer Park Date Sampled: 11/06/96

Sample I.D.: WG-38

Quant Result Date Date IEA Prep Parameter Method Limit (mg/kg) Prepared Analyzed Analyst Run Batch

LEAD SW846 6010 0.322 480. 11/12/96 11/15/96 MH R8747 11129608P

#### Comments:

IEA Project #: 1834\_021

IEA Sample #:  $9611\overline{20937}$ Matrix: SOIL Client Name: Fletcher Group

Date Received: 11/08/96 Client Proj. I.D.: 265.06 Westgate Trailer Park Date Sampled: 11/06/96

sample I.D.: WG-30

Quant Result Date Date IEA Prep arameter Method Limit (mg/kg) Prepared Analyzed Analyst Run Batch

SW846 6010 Ø.395 370. 11/12/96 11/15/96 MH R8747 11129608P

Comments:

IEA Project #: 1834\_021

IEA sample #: 961120938 Matrix: SOIL

Client Name: Fletcher Group Date Received: 11/08/96 Client Proj. I.D.: 265.06 Westgate Trailer Park Date Sampled: 11/06/96

Sample I.D.: WG-37

Quant Result Date Date IEA Prep Parameter Method Limit (mg/kg) Prepared Analyzed Analyst Run Batch

LEAD SW846 6010 0.350 642. 11/12/96 11/15/96 MH R8747 11129608P

Comments:

IEA Project #: 1834\_021

IEA Sample #: 961120939 Matrix: SOIL

Client Name: Fletcher Group

Client Proj. I.D.: 265.06 Westgate Trailer Park

Date Received: 11/08/96

Date Sampled: 11/06/96

Sample I.D.: WG-31

Quant Result Date Date IEA Prep Parameter Method Limit (mg/kg) Prepared Analyzed Analyst Run Batch

AD SW846 6010 0.349 199. 11/12/96 11/15/96 MH R8747 11129608P

Comments:

IEA Project #: 1834\_021
IEA Sample #: 961120940

IEA Sample #: 961120940 Matrix: SOIL
Client Name: Fletcher Group Date Received: 11/08/96
Client Proj. I.D.: 265.06 Westgate Trailer Park Date Sampled: 11/06/96

Sample I.D.: WG-36

Quant Result Date Date IEA Prep Parameter Method Limit (mg/kg) Prepared Analyzed Analyst Run Batch

LEAD SW846 6010 0.319 384. 11/12/96 11/15/96 MH R8747 11129608P

Comments:

IEA Project #: 1834\_021 IEA Sample #: 961120941

IEA Sample #: 961120941 Matrix: SOIL

Client Name: Fletcher Group Date Received: 11/08/96 Client Proj. I.D.: 265.06 Westgate Trailer Park Date Sampled: 11/06/96

Sample I.D.: WG-32

Quant Result Date Date IEA Prep Prameter Method Limit (mg/kg) Prepared Analyzed Analyst Run Batch

EAD SW846 6010 0.318 441. 11/13/96 11/14/96 RH R8743 11139608P

Comments:

IEA Project #: 1834\_021
TEA Sample #: 961120942

IEA Sample #: 961120942 Matrix: SOIL

Client Name: Fletcher Group Date Received: 11/08/96 Client Proj. I.D.: 265.06 Westgate Trailer Park Date Sampled: 11/06/96

sample I.D.: WG-132

Quant Result Date Date IEA Prep Parameter Method Limit (mg/kg) Prepared Analyzed Analyst Run Batch

LEAD SW846 6010 0.322 290. 11/13/96 11/14/96 RH R8743 11139608P

Comments:

IEA Project #: 1834 021

IEA Sample #: 961120943 Matrix: SOIL Client Name: Fletcher Group Date Received: 11/08/96

Client Proj. I.D.: 265.06 Westgate Trailer Park Date Sampled: 11/06/96

sample I.D.: WG-35

Quant Result Date Date IEA Prep <u>Parameter</u> Method Limit (mg/kg) Prepared Analyzed Analyst Run

SW846 6010 Ø.312 41.3 11/13/96 11/14/96 RH R8743 11139608P

Comments:

IEA Project #: 1834\_021

IEA Sample #: 961120944 Matrix: SOIL

Client Name: Fletcher Group Date Received: 11/08/96 Client Proj. I.D.: 265.06 Westgate Trailer Park Date Sampled: 11/06/96

Sample I.D.: WG-33

Quant Result Date Date IEA Prep Parameter Method Limit (mg/kg) Prepared Analyzed Analyst Run Batch

LEAD SW846 6010 0.374 302. 11/13/96 11/14/96 RH R8743 11139608P

#### Comments:

IEA Project #: 1834\_021

IEA Sample #: 961120945

Matrix: SOIL
Client Name: Eletaber Croup

Client Name: Fletcher Group Date Received: 11/08/96
Client Proj. I.D.: 265.06 Westgate Trailer Park Date Sampled: 11/06/96

Sample I.D.: WG-34

Quant Result Date Date IEA Prep Parameter Method Limit (mg/kg) Prepared Analyzed Analyst Run Batch

EAD SW846 6010 0.301 146. 11/13/96 11/14/96 RH R8743 11139608P

Comments:

IEA Project #: 1834\_021

IEA Sample #: 961120946 Matrix: SOIL

Client Name: Fletcher Group Date Received: 11/08/96
Client Proj. I.D.: 265.06 Westgate Trailer Park Date Sampled: 11/06/96

Sample I.D.: WG-43,0-3"

Quant Result Date Date IEA Prep Parameter Method Limit (mg/kg) Prepared Analyzed Analyst Run Batch

LEAD SW846 6010 0.310 18.0 11/13/96 11/14/96 RH R8743 11139608P

Comments:

IEA Project #: 1834\_021

IEA Sample #: 961120947 Matrix: SOIL

Client Name: Fletcher Group

Client Proj. I.D.: 265.06 Westgate Trailer Park

Date Received: 11/08/96

Date Sampled: 11/06/96

Sample I.D.: WG-43,9-12"

Quant Result Date Date IEA Prep Parameter Method Limit (mg/kg) Prepared Analyzed Analyst Run Batch

AD SW846 6010 0.379 25.7 11/13/96 11/14/96 RH R8743 11139608P

Comments:

IEA Project #: 1834\_021

IEA Sample #:  $9611\overline{2}0948$  Matrix: SOIL

Client Name: Fletcher Group Date Received: 11/08/96
Client Proj. I.D.: 265.06 Westgate Trailer Park Date Sampled: 11/06/96

Sample I.D.: WG-30 DUPLICATE

Quant Result Date Date IEA Prep Parameter Method Limit (mg/kg) Prepared Analyzed Analyst Run Batch

LEAD SW846 6010 0.351 346. 11/13/96 11/14/96 RH R8743 11139608P

٠,

Comments:

## Industrial & Environmental Analysts, Inc. (IEA) Level 2 Metals Results Report PREPARATION BLANKS

IEA Project #: 1834\_021 Matrix: SOIL

Client Name: Fletcher Group

Client Proj. I.D.: 265.06 Westgate Trailer Park

Sample Number: PBS 11129607P

Quant Result Date Date IEA Prep Parameter Method Limit (mg/kg) Prepared Analyzed Analyst Run Batch

EAD SW846 6010 0.300 BQL 11/12/96 11/14/96 RH R8743 11129607P

```
ebrresponding Samples:
961120901, 961120902, 961120903, 961120904, 961120905, 961120906,
961120907, 961120908, 961120909, 961120910, 961120911, 961120912,
961120913, 961120914, 961120915, 961120916, 961120917, 961120918,
961120919, 961120920
```

mments:

## Industrial & Environmental Analysts, Inc. (IEA) Level 2 Metals Results Report PREPARATION BLANKS

IEA Project #: 1834\_021

Matrix: SOIL

Client Name: Fletcher Group

Client Proj. I.D.: 265.06 Westgate Trailer Park

Sample Number: PBS 11129608P

Quant Result Date Date IEA Prep Parameter Method Limit (mg/kg) Prepared Analyzed Analyst Run Batch

LEAD SW846 6010 0.300 BQL 11/12/96 11/14/96 MH R8747 11129608P

```
corresponding Samples:
961120921, 961120922, 961120923, 961120924, 961120925, 961120926,
961120927, 961120928, 961120929, 961120930, 961120931, 961120932,
961120933, 961120934, 961120935, 961120936, 961120937, 961120938,
961120939, 961120940
```

## Industrial & Environmental Analysts, Inc. (IEA) Level 2 Metals Results Report PREPARATION BLANKS

IEA Project #: 1834\_021

Matrix: SOIL

Client Name: Fletcher Group

lient Proj. I.D.: 265.06 Westgate Trailer Park

Sample Number: PBS 11139608P

Quant Result Date Date IEA Preparameter Method Limit (mg/kg) Prepared Analyzed Analyst Run Batch

EAD SW846 6010 0.300 BQL 11/13/96 11/14/96 RH R8745 11139608P

Corresponding Samples:
961116701, 961116702, 961116703, 961116704, 961116705, 961117701,
961117702, 961117704, 961117705, 961120941, 961120942, 961120943,
961120944, 961120945, 961120946, 961120947, 961120948

# Industrial & Environmental Analysts, Inc. (IEA) Level 2 Metals Results Report LABORATORY CONTROL SAMPLE

**TEA Project #: 1834\_021** 

IEA sample #: LCSS 11129607P

Matrix: SOIL

Results (mg/kg) Limits % Date IEA Prep Parameter Method True Found Lower Upper RCY Analyzed Run Batch

LEAD SW846 6010 122 111. 82.7 160 91.3 11/14/96 R8743 11129607P

#### Industrial & Environmental Analysts, Inc. (IEA) Level 2 Metals Results Report LABORATORY CONTROL SAMPLE

EA Project #: 1834\_021 IEA Sample #: LCSS 11129608P

Matrix: SOIL

Results (mg/kg) Limits Date IEA Prep 8 Parameter Method True Found Lower Upper RCY Analyzed Run Batch SW846 6010 122 106. 82.7 160 87.2 11/14/96 R8747 11129608P

mments:

# Industrial & Environmental Analysts, Inc. (IEA) Level 2 Metals Results Report LABORATORY CONTROL SAMPLE

**IEA Project #: 1834\_021** 

IEA Sample #: LCSS 11139608P

Matrix: SOIL

Results (mg/kg) Limits % Date IEA Prep Parameter Method True Found Lower Upper RCY Analyzed Run Batch

LEAD SW846 6010 122 99.5 82.7 160 81.6 11/14/96 R8745 11139608P

## Industrial & Environmental Analysts, Inc. (IEA) Level 2 Metals Results Report DUPLICATE ANALYSIS

EA Project #: 1834\_021 IEA Sample #: 961116701

rameter

Matrix: SOIL

Method

Duplicate Analysis Sample Duplicate RPD Date Samp Dup Prep (mg/kg) (mg/kg) % Analyzed Run Run Batch

EAD SW846 6010 12.6 10.8 15.4 11/14/96 R8745 R8745 11139608P

S-D RPD = ----- x 100 (S+D)/2

Control Limits: +/- 20%

prresponding samples:
961116701, 961116702, 961116703, 961116704, 961116705, 961117701,
961117702, 961117704, 961117705, 961120941, 961120942, 961120943,
961120944, 961120945, 961120946, 961120947, 961120948

Comments:

## Industrial & Environmental Analysts, Inc. (IEA) Level 2 Metals Results Report DUPLICATE ANALYSIS

IEA Project #: 1834\_021 IEA Sample #: 961120901

Matrix: SOIL

_	Duplicate Analysis							
Parameter	Method	Sample (mg/kg)	Duplicate (mg/kg)		Date Analyzed		Dup Run	Prep Batch
LEAD	SW846 6010	1030	1590	42.7	11/14/96	R8743	R8743	11129607P

```
Corresponding Samples:
961111601, 961111602, 961111603, 961120901, 961120902, 961120903,
961120904, 961120905, 961120906, 961120907, 961120908, 961120909,
961120910, 961120911, 961120912, 961120913, 961120914, 961120915,
961120916, 961120917, 961120918, 961120919, 961120920, 961120921,
961120922, 961120923, 961120924, 961120925, 961120926, 961120927,
961120928, 961120929, 961120930, 961120931, 961120932, 961120933,
961120934, 961120935, 961120936, 961120937, 961120938, 961120939,
```

Comments:

## Industrial & Environmental Analysts, Inc. (IEA) Level 2 Metals Results Report DUPLICATE ANALYSIS

EA Project #: 1834\_021 EEA Sample #: 961120921

Matrix: SOIL

Duplicate Analysis

Sample Duplicate RPD Date Samp Dup Prep arameter Method (mg/kg) (mg/kg) % Analyzed Run Run Batch

LEAD SW846 6010 284. 264. 7.32 11/14/96 R8747 R8747 11129608P

S-D
RPD = ----- x 100 Control Limits: +/- 20%
(S+D)/2

Corresponding Samples:
61111601, 961111602, 961111603, 961120901, 961120902, 961120903, 61120904, 961120905, 961120906, 961120907, 961120908, 961120909, 961120911, 961120912, 961120913, 961120914, 961120915, 61120916, 961120917, 961120918, 961120919, 961120920, 961120921, 61120922, 961120923, 961120924, 961120925, 961120926, 961120927, 61120928, 961120929, 961120930, 961120931, 961120932, 961120933, 961120934, 961120935, 961120936, 961120937, 961120938, 961120939,

Comments:

IEA Project #: 1834\_021 IEA Sample #: 961116701

Matrix: SOIL

Spike Results (mg/kg)

Date Samp Spike Prep Parameter Method SA SR SSR %RCY Analyzed Run Run Batch LEAD SW846 6010 56.9 12.6 60.8 84.7 11/14/96 R8745 R8745 11139608P

R = ((SSR - SR) / SA) \* 100

Control Limits: 75-125%

Corresponding Samples:
961116701, 961116702, 961116703, 961116704, 961116705, 961117701,
961117702, 961117704, 961117705, 961120941, 961120942, 961120943,
961120944, 961120945, 961120946, 961120947, 961120948

Comments:

EA Project #: 1834\_021 TEA Sample #: 961120901

Matrix: SOIL

Spike Results (mg/kg)
Date

Date Samp Spike Prep Arameter Method SA SR SSR %RCY Analyzed Run Run Batch

EAD SW846 6010 62.3 1030 1510 759. 11/14/96 R8743 R8743 11129607P

```
%R = ((SSR - SR) / SA) * 100 Control Limits: 75-125%

Corresponding Samples:
61111601, 961111602, 961111603, 961120901, 961120902, 961120903, 961120904, 961120905, 961120906, 961120907, 961120908, 961120909, 961120910, 961120911, 961120912, 961120913, 961120914, 961120915, 61120916, 961120917, 961120918, 961120919, 961120920, 961120921, 61120922, 961120923, 961120924, 961120925, 961120926, 961120927, 961120928, 961120929, 961120930, 961120931, 961120932, 961120933, 961120934, 961120935, 961120936, 961120937, 961120938, 961120939,
```

61120940

Comments:

EA Project #: 1834\_021 IEA Sample #: 961120921

Matrix: SOIL

Spike Results (mg/kg)

Date Samp Spike Prep Parameter Method SA SR SSR %RCY Analyzed Run Run Batch

LEAD SW846 6010 47.5 284. 315. 64.2 11/14/96 R8747 R8747 11129608P

```
%R = ((SSR - SR) / SA) * 100 Control Limits: 75-125%

Corresponding Samples:

961111601, 961111602, 961111603, 961120901, 961120902, 961120903, 961120904, 961120905, 961120906, 961120907, 961120908, 961120909, 961120910, 961120911, 961120912, 961120913, 961120914, 961120915, 961120916, 961120917, 961120918, 961120919, 961120920, 961120921, 961120922, 961120923, 961120924, 961120925, 961120926, 961120927, 961120928, 961120929, 961120930, 961120931, 961120932, 961120933, 961120934, 961120935, 961120936, 961120937, 961120938, 961120939, 961120940

Comments:
```

#### Industrial & Environmental Analysts, Inc. (IEA) Level 2 Metals Results Report SPIKE DUPLICATE RESULTS

**EA Project #: 1834\_021 IEA** Sample #:  $9611\overline{1}6701$ S

Matrix: SOIL

Spike Duplicate Results

Sample Duplicate RPD Date Samp Dup arameter Method (mg/kg) (mg/kg) Batch Analyzed Run Run

LEAD SW846 6010 60.8 60.6 Ø.43 11/14/96 R8745 R8745 111396Ø8P

S-D  $RPD = ---- \times 100$ (S+D)/2

Control Limits: +/- 20%

prresponding Samples:

961116701, 961116702, 961116703, 961116704, 961116705, 961117701, 961117702, 961117704, 961117705, 961120941, 961120942, 961120943, 961120944, 961120945, 961120946, 961120947, 961120948

comments:

## Industrial & Environmental Analysts, Inc. (IEA) Level 2 Metals Results Report SPIKE DUPLICATE RESULTS

IEA Project #: 1834\_021 IEA sample #: 961120901s

Matrix: SOIL

Spike Duplicate Results

Sample Duplicate RPD Date Samp Dup Prep Parameter Method (mg/kg) (mg/kg) % Analyzed Run Run Batch LEAD SW846 6010 1510 1540 2.11 11/14/96 R8743 R8743 11129607P

Corresponding Samples:
961111601, 961111602, 961111603, 961120901, 961120902, 961120903,
961120904, 961120905, 961120906, 961120907, 961120908, 961120909,
961120910, 961120911, 961120912, 961120913, 961120914, 961120915,
961120916, 961120917, 961120918, 961120919, 961120920, 961120921,
961120922, 961120923, 961120924, 961120925, 961120926, 961120927,
961120928, 961120929, 961120930, 961120931, 961120932, 961120933,
961120934, 961120935, 961120936, 961120937, 961120938, 961120939,

Client-specific quantitative limits used.

### Industrial & Environmental Analysts, Inc. (IEA) Level 2 Metals Results Report SPIKE DUPLICATE RESULTS

EA Project #: 1834\_021 EEA Sample #: 961120921s

Matrix: SOIL

Spike Duplicate Results

Sample Duplicate RPD Date Samp Dup Prep prameter Method (mg/kg) (mg/kg) % Analyzed Run Run Batch

EAD SW846 6010 315. 297. 5.90 11/14/96 R8747 R8747 11129608P

S-D RPD = ----- x 100 (S+D)/2

Control Limits: +/- 20%

Corresponding Samples:
61111601, 961111602, 961111603, 961120901, 961120902, 961120903, 961120904, 961120905, 961120906, 961120907, 961120908, 961120909, 961120910, 961120911, 961120912, 961120913, 961120914, 961120915, 961120916, 961120917, 961120918, 961120919, 961120920, 961120921, 961120922, 961120923, 961120924, 961120925, 961120926, 961120927, 961120928, 961120929, 961120930, 961120931, 961120932, 961120933, 961120934, 961120935, 961120936, 961120937, 961120938, 961120939, 961120940

Comments:

lient-specific quantitative limits used.

0	IEA
_~=	An Aquarion Company

COMPANY

3000 WESTON PKWY. CARY, N.C. 27513 PH# 919-677-0090 FAX# 919-677-0427

### CHAIN OF CUSTODY RECORD

N	
	O.

REGULATOR	Y CLASSIFICATION - PLEASE SPECIFY
☐ NPDES ☐ DRINKING WATE	□ RCRA 1 OTHER

Fletcher	900p													Pa	age		of	5	
PROJECTO	- <u> </u>	Proviso		المراجعة ال المراجعة المراجعة الم	С					Ê	EQU	ESTIE	D) PA	FVAVM	ह्या हो है	ક			
265,06	$\omega$	est sake	. Trailer	r Park	CONT	MANTE	IX.	1 1											
SAMPLERS: (SIGNATUI	RE)	<del> </del>			# A	L	<b>.</b>	\ \forall \ \			/.	/			/				/
Kathy i	Jebb ,	NOT	. Chas	ain	OF NERS	80-L		<b>1</b>											
SAMPLE DATE TO	WIE &	(c): (y)	JUNION LOC	MODIA	S	L	3	) the											
11-6-96 9	1:20	4	26-0°	1	1	v													
11-6-16 9:	40	4	w 6 - 0	8	1	1													
11-6-96 9:	50	-	M6-0.	7	1	1		~											
11-6-96 10	:00		126-0	<u>د</u>	(	1													
11-6-96 10	:10	4	126-13	3	1	4				· .									
4.6.96 10:	20	-	126-1	2 -	l	1											·		
11-6-96 10:	:30	4	26-1		1	1	L	/											
4.6.9610	:40	4	W6-1	٥	l	4										,			
11.6.96 10	:५ड	4	126-1	4	1	1		1											
11.6.96 10	:55		<b>₩</b>			4							_						
STATE OF THE STATE	GNAMUHA)	11.7-96 I		REGENTED	BNY	D	AUE	TIME			A QUO	TE NO	•			IEA	RUSH	NO.	
TERNOVISHEDIBY(SI	O GNATURE)			oewed for	LAB BY	10	ATE	TIME	PRO	JECT M	ANAGE	ER (PLI	EASE P	RINT)		Р	.O. NO.		
										Cath.									
REMARKS ON SA					EA REMA	RKS	· «						. الأناء سند	FEED	REMA	RKS			
☐ PRESERVED [	☐ CUSTODY S	ACT															•		
CHILLED [	SEE REMAR	RKS																	

	-
· **	IEA
	An Aquarion Company

GOMPANY

N		
$\mathbf{R}$	O.	-

3000 WESTON PKWY. CARY, N.C. 27513	CHAIN OF CUSTODY RECORD	
PH # 919-677-0090 FAX # 919-677-0427	REGULATORY CLASSIFICATION - PLEASE SPECIFY	]
	□ NPDES □ DRINKING WATER □ RCRA □ OTHER	

11.6.96 11:25 \ \ \omega \omeg	
SAMPLERS: (SIGNATURE)  STATION LOCATION  WATER  STATION LOCATION  11.6.76 11:25  WATER  STATION LOCATION  U. 6.76 11:30  WATER  STATION LOCATION  U. 6.76 11:30  WATER  STATION LOCATION  U. 6.76 11:30  U. 6.76 11:30	1
Tath webs, John Unistain OF N S of L R P P P P P P P P P P P P P P P P P P	
11.6.76 11:25 WG-15 1 W 11.6.96 11:30 WG-04 1	
11.6.9611:30 06-04	! 
11.6.9611:30 1 26-04	
4.6.76 11:45 6-16	
4.6.96 11:55 106-03 11	
11.6.9611:55 WG-103 1 V	
4.6.9612:00 1 135-17	
11.6.96 12:10 6-02 1 4	
11.6.96 13:15 06-18	
11.6.96 13.25 (26-61	
11.6.96 (3:3) U WG-40 U DAVE TIME REGENCED BY DAVE TIME IEA QUOTE NO. IEA RUSH NO.	
Matweb 11.7-96 17:00	
PROJECT MANAGER (PLEASE PRINT)  P.O. NO.	
Inematiks on sample fiedélpy	
☐ BOTTLE INTACT ☐ CUSTODY SEALS	

0	IEV
4	ILA
	An Aquarion Company

COMPANY

3000 WESTON PKWY. CARY, N.C. 27513 PH# 919-677-0090 FAX# 919-677-0427

### CHAIN OF CUSTODY RECORD

DECLU ATODY	OL A COIFIO ATION	PLEASE SPECIFY
KIEGIII A KOKY	LI ASSIEIL ATTOM =	PLEASE SPECIES

NPDES	$\Box$	DRINKING	WATER
INFUES	ш	DUINKING	MAIEU

RCRA DOTHER

NO.

Flatcher Grosp							Page_	3_	of_5	,
BUSINESS PROJECT A	NAMALE C	:			REQUI	ested Pa	AYNAMETUE	ris		
265,06 Westgate To	railer Palk	NATER N	4			7 /			7 7	
SAMPLERS (SIGNATURE)	A 15 M	<b>1</b>	169						/ /	
		SOIL	10 tal	/ /		/ /			/ /	
SAMPLE DAME TIME \$	NOTE: NOTE: S	LR	<u>  </u>							
11676 13:35 1 06	39 1	W								
11.6.96 13:45 126	41									
	19	1								
	<del>-</del> -20		/	T .						
	21									
	22	V	~							
	r-23 l		V					Ĭ.		
	6-24 1	1	1							
	5- 25 L		/							
1 1 1 1	26	1								
Will all ( CERONAME) ACTOERS OF THE	E GEWEDER	(DVA	VE VIME		IEA QUO	TE NO.		IEA R	USH NO.	
Datwell 11-7-76 17:				850:50					- No	
REPUTATION (SIGNATURE)   DAVE   MINI	E HEGENVED ROHTLAS EN	) DA	ME - VINE	PROJEC		P (PLEASE F	'HIN!)	Ρ.0	D. NO.	
Renarkson sample Receipi	IEAREN	MĀŖKS					FIELDIREN	ARKS A		
☐ BOTTLE INTACT ☐ CUSTODY SEALS ☐ PRESERVED ☐ SEALS INTACT										
CHILLED SEE REMARKS										

<u></u>	IEA
~	An Aquarion Company

3000 WESTON PKWY. CARY, N.C. 27513 PH # 919-677-0090 FAX # 919-677-0427

### CHAIN OF CUSTODY RECORD

				1
REGULATORY	CLASSIFICATION -	PLEASE SPE	CIFY	

NIC
ЩУ.

74295

© OMPANY	☐ NPDES	DRINKING WATER	☐ RCRA	OTHER_	<del></del>
Flotcher Govo					

Page 4 of 5

1 1610-101	<sup>3</sup> P							•	ugo	0'		
PROJECTO	ARCHECH WHATE	C				REQU						
	tgale Trailor Park	C O N T	MATTERE	6		1 1						
SAMPLERS (SIGNATURE)		A	W	/ ہو /	/		/ /		/ /	′ /		
Lat web,	John Mastain	OF NER	SO-L	pay I had		/ /					/ ,	/
Sandi sand spilate	SUSTINON TOCALION	R S	L ER	戶								
11-6-96 15:05	W6-27	١		/								
11.6.96 15:10	V W6-28	l		/								
11.6.96 15:15	V 66-128	ı		/								
11.6.96 15:15	1 W6-42	١		/								
1.6.96 15: 25	W6-29	l		/								
4.6.96 15:30	WG-38	ı		/								
11.6.9615:35	W6-30	1										
11.6.76 15:35	V WG -37	١	1									
11.6.9615:50	w6-31	1	1	~								
11.696 15:55	WG-36	]										
FERNON SHED EN BIGNEN (BIGNER)	DENIEDER, STANDE STANDE	<b>:</b> //	D/A			IEA QUO	OTE NO.			EA RUSH	NO.	
- hat werb	11.7.16 17:00	CONTRACTOR ASSESSMENT	*****				,					
HENNEWSTEPBY (SIGNATURE)	DAVE TUME RECEIVED FORT	LAB BY	DA	E NIME	PROJE	CT MANAGE	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	E PRINT)		P.O. NO		
		- Article State				7	<u> vers</u>	مه کا و سوار ( سوار کا	War Caraca Table		SIP 10 20 20	O Mari Mic
REMARKS ON SAMPLE REC	10 CH - 10 - 10 - 10 - 10 - 10 - 10 - 10 - 1	EAREMA	AHIVO			1/2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.		[취보6	PREMARK	د غيښي و	an Medical	
☐ PRESERVED ☐ SEALS IN	ITACT				•							
CHILLED SEE REM	IARKS											

TTA
\$ IEA
An Aquarion Company

3000 WESTON PKWY. CARY, N.C. 27513	CHAIN OF CUSTODY RECORD
PH # 919-677-0090 FAX # 919-677-0427	REGULATORY CLASSIFICATION - PLEASE SPECIFY
MOV	□ NPDES □ DRINKING WATER □ RCRA □ OTHER

NO. 74296

andre market and the company of the	COMPANY			☐ NPDES [	DRINKING	WATER		] RCRA		OTHER	3				]						
Fleto	ur 600	υρ														Pa	age	5	of	5	
PROJECT (		, j	PROJECT W			С			<del></del>			R	EQU.	EST.	D PA	FYAYMI	ever	S			2
265,06				- Park		CONT	ixkati	ialki	1		T										
SAMPLERS (SIGN)						A		: W	/												
Kats a	Jella,	NOT	n Ch	astain		OF NERS	90-L	A T	/												
SAMPLE CATE	MIXIE \$	(elt/);	Siran		ואני	S	Ĺ	E R						<u> </u>							
	16:00		we	<del>,</del> -32					İ												
	16:00		<b>ن</b> ه	-132	<i></i>																
	16:00	14	_ ယ(	-35																	
	16:15	1	w	<del>33</del>	·																
	16:20	1		6-34		<u> </u>					<u> </u>										
	16:40	1	<u> </u>	<u>- 43</u>	0-3"									ļ							
	16:20			G-43	9-12"																
	15:35	V	<u> </u>	6-43 6-30	Dsplic	ate															
					\ 																
্ৰৰ দৈত্ৰশন্ত্ৰণৰ্ভ	( <b>કોલપ્ર</b> ાપનો	<b>3</b> ) <b>(</b> )(A	TE THAT	i, ia	GEIMED (	<b>V</b>		DATE	Ī	ME			A QUO	TE NC	).			IEA	RUSH	NO.	
स्तिम्हिल्ला ।			ลล์ <sup>2</sup> โรคเรา≄	l'alexalent	14314515					IVIE	BBO I	ECT M	ANACE	- IQ (DI	EACED	DINITA			.O. NO		
	IN THE PROPERTY OF	3/11/2/2	ooks 10 Dining		A THE POPUL			m CMF			rnou		AWACI	=11 (r L	LACE P	mini)			.O. NO		
. Tremanension	BANFLER					AREM/	YRKS	}								FIELD	REMA	RKS			
☐ BOTTLE INTACT ☐ PRESERVED ☐ CHILLED	CUSTO SEALS SEE RE	INTAÇT	S											<u>.</u>							

### Appendix D Summary of Duplicate Data

DUPLICATE DATA

Page: 1 of 4 Date: 01/08/97

SAMPLING EVENT: 96-B-04 (11/06/96 to 11/07/96)

SAMPLE TYPE: Soil
TCL ID: 7421TL
PF CODE: Total
LAB ID: IEA

	SAMPLE INFORMATION	PRIMARY SAMPLE	FIRST DUPLICATE	PRECIS SUMM	
	SITE	WG-03	WG-03	RELAT	TIVE
	DATE	11/06/96	11/06/96	PERCI	ENT
	DEPTH	0.000	0.000	DIFFER	ENCE
	FIELD SAMPLE ID			(RPI	<b>)</b>
	LAB SAMPLE ID	-		RPD	RPD
	BATCH NO			MEASURED	GOAL
СОМРО		(MG/KG)	(MG/KG)	%	%
Lead		434	453	4	0

APPENDIX D

**DUPLICATE DATA** 

Page: 2 Date: 01/08/97

**SAMPLING EVENT**: 96-B-04 (11/06/96 to 11/07/96)

SAMPLE TYPE: Soil TCL ID: 7421TL PF CODE: Total LAB ID: IEA

	SAMPLE INFORMATION	PRIMARY SAMPLE	FIRST DUPLICATE	PRECISIO SUMMA	
	SITE	WG-28	WG-28	RELATIV	VE
	DATE	11/06/96	11/06/96	PERCEN	NT
	DEPTH	0.000	0.000	DIFFEREN	NCE
	FIELD SAMPLE ID			(RPD)	)
	LAB SAMPLE ID			RPD	RPD
	BATCH NO			MEASURED	GOAL
COMPOU		(MG/KG)	(MG/KG)	%	%

578 601 Lead 0 DUPLICATE DATA

Page: 3 of 4 Date: 01/08/97

SAMPLING EVENT: 96-B-04 (11/06/96 to 11/07/96)

SAMPLE TYPE: Soil TCL ID: 7421TL PF CODE: Total LAB ID: ΙEΑ

	SAMPLE INFORMATION	PRIMARY SAMPLE	FIRST DUPLICATE		CISION IMARY
	SITE	. WG-30	WG-30	REL	ATIVE
	DATE	11/06/96	11/06/96	PER	RCENT
	DEPTH	0.000	0.000	DIFFI	ERENCE
	FIELD SAMPLE ID	<del>-</del> ,		(F	RPD)
	31			RPD	RPD
	BATCH NO			MEASURE	D GOAL
СОМРОИ	NDS	(MG/KG)	(MG/KG)	. %	%
l ead		370	346	7	

	DEPTH FIELD SAMPLE ID	0.000	0.000	(RPI		
	LAB SAMPLE ID  BATCH NO			RPD MEASURED	RPD GOAL	
COMPOU	<del> </del>	(MG/KG)	(MG/KG)	%	%	
Lead		370	346	7	0	

APPENDIX D

**DUPLICATE DATA** 

Page: 4 Date: 01/08/97

-reT: 96-B-04 (11/06/96 to 11/07/96) Soil

TCL ID:

7421TL

PF CODE: LAB ID:

Total IEA

	SAMPLE INFORMATION	PRIMARY SAMPLE	FIRST DUPLICATE	PRECISION SUMMARY
	SITE	WG-32	WG-32	RELATIVE
	DATE	11/06/96	11/06/96	PERCENT
	DEPTH	0.000	0.000	DIFFERENCE
	FIELD SAMPLE ID	,		(RPD)
-	LAB SAMPLE ID			RPD RPD
	BATCH NO			MEASURED GOA
COMPOUN	DS	(MG/KG)	(MG/KG)	% %
Lead		441	290	41 0

DATE REPORT ACCEPTED 9-11-00 COW Priority For Management of the Samuel S

WESTGATE MOBILE HOME PRELIMINARY ASSESSMENT / SITE INSPECTION SCO 000 487 687 GREENVILLE COUNTY

> Prepared by: Jonathan McInnix Reviewed by: Robert Cole

Site Assessment Section
Bureau of Solid and Hazardous Waste Management
South Carolina Department of Health and Environmental Control

2600 Bull Street Columbia, South Carolina 29201

Date: December 30, 1996

#### TABLE OF CONTENTS

I.	SCOPE OF WORK	l
II.	INTRODUCTION/EXECUTIVE SUMMARY	l
III.	SITE DESCRIPTION, HISTORY AND WASTE CHARACTERISTICS	l
	A. Ownership History	3
IV.	GROUNDWATER PATHWAY	
v.	SURFACE WATER4	ļ
VI.	SOIL EXPOSURE & AIR PATHWAYS4	
VII.	SUMMARY AND CONCLUSIONS4	
VIII.	REFERENCES	

#### I. SCOPE OF WORK

Under authority of the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) and the Superfund Amendments and Reauthorization Act of 1986 (SARA), the Site Assessment Section of the South Carolina Department of Health and Environmental Control (SCDHEC) conducted a Preliminary Assessment/Site Inspection (PA/SI) at the Westgate Mobile Home Park site in Greenville County, South Carolina. The purpose of this investigation is to assess the potential threat posed to human health and the environment and to determine the need for additional CERCLA/SARA or other appropriate action. The scope of the investigation included a review of available file information and a target survey.

#### II. INTRODUCTION/EXECUTIVE SUMMARY

The Westgate Mobile Home Park is located at the intersection of Old Chick Springs Road and Old Buncombe Road in Greer, South Carolina in Greenville County. The trailer park was established in 1968 and consists of approximately 53 mobile homes. An Exide Battery facility (SCD 042 633 859) is located adjacent to the trailer park and has been used for the manufacture of lead acid batteries since the early 1960's.

Since 1992, several rounds of soil sampling have identified high lead levels within the trailer park. In September 1994 the USEPA excavated shallow soil from six areas with lead concentrations greater than 500 parts per million (ppm) in soil. No follow up sampling has been performed since the soil removal.

Because of high levels of lead detected on-site, the Westgate Mobile Home site would normally receive a high priority for further Federal Superfund activity. However, due to the ongoing Remedial Investigation (performed by Exide Corporation under SCDHEC Consent Order 96-12-HW), it is recommended that the site be referred to the SCDHEC Site Engineering Section for oversight of further remedial investigation/action. Future Federal Superfund investigations should consider aggregation of this site, Kings Acres Subdivision, the Exide Battery facility, and other surrounding residential areas into one site unless additional source areas are discovered.

#### III. SITE DESCRIPTION, HISTORY AND WASTE CHARACTERISTICS

#### A. Ownership History

Westgate Mobile Home Park Owner:
Bruce Reeves
2320 East North Street
Greenville, SC 29607

General Battery Corporation (a wholly-owned subsidiary of Exide Corporation) Contact: Neal S. Lebo, Regional Environmental, Health & Safety Manager P.O. Box 13995
Reading, PA 19612-3995

#### B. Site Description

The Westgate Mobile Home site consists of approximately 52 mobile homes on a 5 acre tract at the intersection of Old Chick Springs Road and Old Buncombe Road in Greer, South Carolina (Ref. 3). Immediately adjacent to the site to the west is Exide Battery, where lead acid batteries have been manufactured since the 1960's (Ref. 3). The surrounding area is residential and commercial. See Figure I for site layout. The site coordinates are 34 degrees, 56 minutes, 16.9 seconds north latitude and 82 degrees, 15 minutes, 27.0 seconds west longitude (Ref 1).

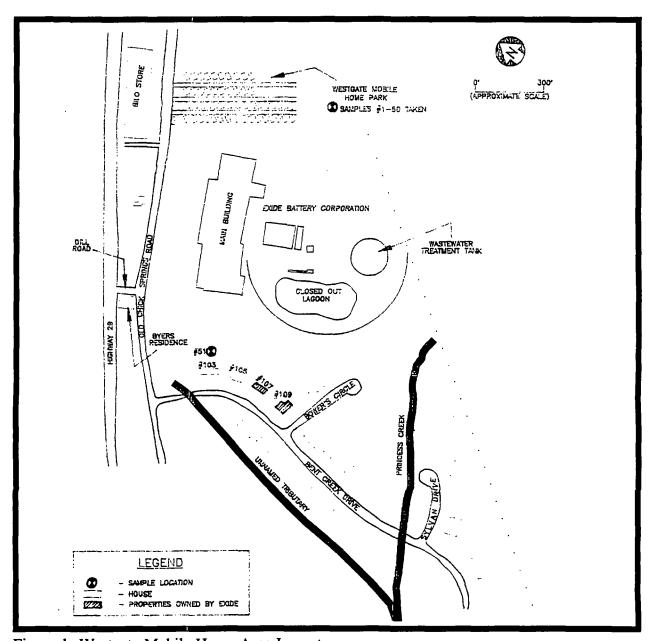


Figure 1: Westgate Mobile Home Area Layout

#### C. Operational / Regulatory History

According to available aerial photography, the trailer park was established between 1968 and 1970 (Ref. 3). The manufacture of lead acid batteries began adjacent to the site in the early 1960's by Bowers Battery, which later changed its name to General Battery and Ceramic Corporation, and in 1968, to General Battery Corporation. Exide Corporation began operation at the site in May 1987 (Ref. 2).

An earthen lagoon was constructed at the Exide facility in the early 1960's for treatment of industrial wastewater. Groundwater subsequently became contaminated with lead and sulfates (Ref. 2). The lagoon was not used after the construction of a neutralization system for pretreatment prior to discharge into the city sewer system in 1977 (Ref. 2). In June 1984, SCDHEC issued a permit for the construction of a groundwater recovery and treatment program. This system remains in operation to date (Ref. 2).

In April 1986, SCDHEC determined that soil in the drainage area at the rear of the property was contaminated with lead. Administrative Consent Order 86-36-SW required an assessment plan to address all areas of on-site soil contamination. During implementation of the plan, Exide removed approximately 1039 tons of soil. On August 24, 1990, Exide notified SCDHEC that soil remediation was complete (Ref. 2).

In January 1992, SCDHEC collected three soil samples from the Westgate Mobile Home site and found lead concentrations of 270 ppm, 560 ppm, and 800 ppm (Ref. 5). In June 1994, Weston, Inc. (under contract with USEPA) collected fifty-five shallow soil samples across the trailer park. Results of these analyses found total lead concentrations from 42.1 ppm up to 2110 ppm (Ref. 7). Six locations had total lead concentrations greater than 500 ppm and were excavated by USEPA. Approximately 1200 tons of contaminated soil was removed from these areas and clean soil was placed into the excavations (Ref. 4). No confirmatory sampling has been conducted at the site.

In April 1996, Exide Corporation entered into Consent Agreement 96-12-HW with SCDHEC requiring the following:

A Site Assessment Work Plan for the entire Exide facility. Remediation Plan for Kings Acres Subdivision Remedial Investigation at Westgate, and remedial action as necessary.

#### D. Waste Characteristics

As a worst case scenario, the entire site (5 acres) will be assumed to be contaminated with lead. Further investigation is required to adequately define the area of contamination and identify additional sources.

#### IV. GROUNDWATER PATHWAY

The majority of the population within a 4-mile radius of the site obtains drinking water from either the Town of Greer water supply system or the City of Greenville water supply system (Ref. 1). Both of these municipal systems are supplied by upgradient surface water (Ref. 6). Very few private wells are located within four mile site radius. Due to the low number of groundwater targets in the immediate area, the groundwater pathway will not be evaluated for purposes of this report. The nearest well is estimated to be between ¼ and ½ mile from the site (Ref. 1).

#### V. SURFACE WATER PATHWAY

Perennial surface water is located approximately ½ mile from the site to the west (Ref. 1). A release to surface water from the Westgate site is not likely. The surface water pathway will need evaluation during further investigations at the Exide facility, due to the closed wastewater lagoon on-site.

#### VI. SOIL EXPOSURE PATHWAY & AIR PATHWAY

An estimated 135 people reside at Westgate Mobile Home Park, based on fifty-three mobile homes multiplied by the county average persons per household (2.54 from 1990 US Census Data). USEPA sampling in 1994 found total lead concentrations ranging from 42.1 ppm to 2110 ppm (Ref. 7). The fill material brought in after EPA's removal action contained 8.36 ppm lead, which will be considered the background level for purposes of this report (Ref. 7). Therefore, all fifty-five samples collected by USEPA in 1994 contain lead in excess of three times background values. The removal action by USEPA excavated the top 18" of soil in approximate 10 to 15 foot circles around each of the sampling points with total lead greater than 500 ppm (Ref. 4). No confirmatory sampling has been performed at the site since the removal.

#### VII. SUMMARY AND CONCLUSIONS

Because of high levels of lead detected on-site, the Westgate Mobile Home site would normally receive a high priority for further Federal Superfund activity. However, due to the ongoing Remedial Investigation (performed by Exide Corporation under SCDHEC Consent Order 96-12-HW), it is recommended that the site be referred to the SCDHEC Site Engineering Section for oversight of further remedial investigation/action. Future Federal Superfund investigations should consider aggregation of this site, Kings Acres Subdivision, the Exide Battery facility, and other surrounding residential areas into one site unless additional source areas are discovered.

#### VIII. REFERENCES

#### Copies attached unless noted

1. USGS Topographic Maps, 7.5 minute series

Taylors, SC

1983

Greer, SC

- 2. SCDHEC Consent Agreement # 96-12-HW with Exide Corporation. April 9, 1996.
- 3. The Fletcher Group, Inc. Remedial Investigation Work Plan Westgate Trailer Park. June 1996. Portions attached.
- 4. Weston Technical Assistance Team. Memorandum to Warren Dixon concerning Removal at Westgate Trailer Site. October 25, 1994.
- 5. Mary Anderson, SCDHEC. Memorandum to File concerning sampling at Exide Corporation. March 4, 1992.
- 6. SCDHEC Bureau of Drinking Water Protection. Public Water Supply "B" List. December 19, 1990. Available in Site Assessment Section.
- 7. Weston Technical Assistance Team. Memorandum to Warren Dixon concerning sampling at Westgate Trailer Park. August 3, 1994.

# PREScore 4.0 HRS DOCUMENTATION RECORD Westgate Mobile Home - 12/31/96

 Site Name: Westgate Mobile Home (as entered in CERCLIS)

2. Site CERCLIS Number: SC0000487687

3. Site Reviewer: Jonathan McInnis

4. Date: 12/30/96

5. Site Location: Greer, Greenville County, SC (City/County, State)

6. Congressional District:

7. Site Coordinates: Single

Latitude: 34°56'16.9"

Longitude: 082°15'27.0"

	Score
Ground Water Migration Pathway Score (Sgw)	0.00
Surface Water Migration Pathway Score (Ssw)	0.00
Soil Exposure Pathway Score (Ss)	21.60
Air Migration Pathway Score (Sa)	0.00

Si	ite Score	10.80

#### NOTE

Site names, and references to specific parcels or properties, are provided for general identification purposes only. Knowledge regarding the extent of sites will be refined as more information is developed during the RI/FS and even during implementation of the remedy.

#### PREScore 4.0 WASTE QUANTITY Westgate Mobile Home - 12/31/96

#### 1. WASTESTREAM QUANTITY SUMMARY TABLE, SOURCE: Contaminated Soil

a. Wastestream ID	
b. Hazardous Constituent Quantity (C) (lbs	.) 0.00
c. Data Complete?	NO
d. Hazardous Wastestream Quantity (W) (lbs	.) 0.00
e. Data Complete?	NO
f. Wastestream Quantity Value (W/5,000)	0.00E+00

# PREScore 4.0 WASTE QUANTITY Westgate Mobile Home - 12/31/96

#### 2. SOURCE HAZARDOUS WASTE QUANTITY FACTOR TABLE

a.	Source ID		Contaminated Sc	oil
b.	o. Source Type		Contaminated Sc	oil
c.	Secondary Source Type	•	N.A.	
đ.	Source Vol.(yd3/gal)	Source Area (ft2)	0.00	220000.00
e.	Source Volume/Area Va	lue	6.47E+00	•
f.	Source Hazardous Cone (HCQ) Value (sum of 1	I	0.00E+00	
g.	Data Complete?		NO	
h.	Source Hazardous Wast (WSQ) Value (sum of 1		0.00E+00	
i.	Data Complete?		NO	
k.	Source Hazardous Wast Value (2e, 2f, or 2h)	- · · · · ·	6.47E+00	

Source Hazardous Substances	Depth (feet)	Liquid	Concent.	Units
Cadmium	< 2	NO	4.4E+02	ppm
Lead	< 2	NO	6.0E+02	ppm

# PREScore 4.0 WASTE QUANTITY Westgate Mobile Home - 12/31/96

#### 3. SITE HAZARDOUS WASTE QUANTITY SUMMARY

No. Source ID	-	Vol. or Area Value (2e)	Constituent or Wastestream Value (2f,2h)	Hazardous Waste Qty. Value (2k)
1 Contaminated Soil	GW-SW-SE-A	6.47E+00	0.00E+00	6.47E+00

### PREScore 4.0 WASTE QUANTITY Westgate Mobile Home - 12/31/96

#### 4. PATHWAY HAZARDOUS WASTE QUANTITY AND WASTE CHARACTERISTICS SUMMARY TABLE

Migration Pathway	Contaminant Value	28	HWQVs*	WCVs**
Ground Water	Toxicity/Mobility	2.00E+01	10	3
SW: Overland Flow, DW	Tox./Persistence	1.00E+04	10	18
SW: Overland Flow, HFC	Tox./Persis./Bioacc.	5.00E+07	10	100
SW: Overland Flow, Env	Etox./Persis./Bioacc.	5.00E+06	10	56
SW: GW to SW, DW	Tox./Persistence	2.00E+01	10	3
SW: GW to SW, HFC	Tox./Persis./Bioacc.	1.00E+05	10	32
SW: GW to SW, Env	Etox./Persis./Bioacc.	1.00E+04	10	18
Soil Exposure:Resident	Toxicity	1.00E+04	10	18
Soil Exposure: Nearby	Toxicity	1.00E+04	10	18
Air	Toxicity/Mobility	2.00E-01	10	1

\* Hazardous Waste Quantity Factor Values

Note:

SW = Surface Water GW = Ground Water

DW = Drinking Water Threat HFC = Human Food Chain Threat Env = Environmental Threat

<sup>\*\*</sup> Waste Characteristics Factor Category Values

## PREScore 4.0 WASTE QUANTITY Westgate Mobile Home - 12/31/96

GROUND WATER MIGRATION PATHWAY Factor Categories & Factors	Maximum Value	Value Assigned
Likelihood of Release to an Aquifer Aquifer:		
1. Observed Release	550	0
2. Potential to Release		
2a. Containment	10	10
2b. Net Precipitation	10	0
2c. Depth to Aquifer	5	5
2d. Travel Time	35	35
2e. Potential to Release	500	. 400
<pre>[lines 2a(2b+2c+2d)] 3. Likelihood of Release</pre>	500	400
3. Likelihood of Release	550	400
Waste Characteristics		
4. Toxicity/Mobility	*	2.00E+01
5. Hazardous Waste Quantity	*	10
6. Waste Characteristics	100	3
Targets		
7. Nearest Well	50	0.00E+00
8. Population		
8a. Level I Concentrations	**	0.00E+00
8b. Level II Concentrations	**	0.00E+00
8c. Potential Contamination	**	0.00E+00
8d. Population (lines 8a+8b+8c)	**	0.00E+00
9. Resources	5	0.00E+00
10. Wellhead Protection Area	20	0.00E+00
11. Targets (lines 7+8d+9+10)	**	0.00E+00
12. Targets (including overlaying aquifers)	**	0.00E+00
13. Aquifer Score	100	0.00
GROUND WATER MIGRATION PATHWAY SCORE (Sgw)	100	0.00

<sup>\*</sup> Maximum value applies to waste characteristics category. \*\* Maximum value not applicable.

## PREScore 4.0 SURFACE WATER OVERLAND/FLOOD MIGRATION COMPONENT SCORESHEET Westgate Mobile Home - 12/31/96

SURFACE WATER OVERLAND/FLOOD MIGRATION COMPONENT Factor Categories & Factors DRINKING WATER THREAT	Maximum Value	Value Assigned
Likelihood of Release		
1. Observed Release	550	0
2. Potential to Release by Overland Flow 2a. Containment	10	10
2b. Runoff	25	0
2c. Distance to Surface Water	25	25
2d. Potential to Release by Overland Flow [lines 2a(2b+2c)] 3. Potential to Release by Flood	500	250
3a. Containment (Flood)	10	0
3b. Flood Frequency	50	0
3c. Potential to Release by Flood (lines 3a x 3b)	500	0
4. Potential to Release (lines 2d+3c)	500	250
5. Likelihood of Release	550	250
Waste Characteristics		
6. Toxicity/Persistence	*	1.00E+04
7. Hazardous Waste Quantity	*	10
8. Waste Characteristics	100	18
Targets		
9. Nearest Intake 10. Population	50	0.00E+00
10a. Level I Concentrations	**	0.00E+00
10b. Level II Concentrations	. **	0.00E+00
10c. Potential Contamination	**	0.00E+00
10d. Population (lines 10a+10b+10c)	**	0.00E+00
11. Resources 12. Targets (lines 9+10d+11)	5 **	0.00E+00 0.00E+00
13. DRINKING WATER THREAT SCORE	100	0.00

<sup>\*</sup> Maximum value applies to waste characteristics category. \*\* Maximum value not applicable.

# PREScore 4.0 SURFACE WATER OVERLAND/FLOOD MIGRATION COMPONENT SCORESHEET Westgate Mobile Home - 12/31/96

SURFACE WATER OVERLAND/FLOOD MIGRATION COMPONENT Factor Categories & Factors HUMAN FOOD CHAIN THREAT	Maximum Value	Value Assigned
Likelihood of Release		
14. Likelihood of Release (same as line 5)	550	250
Waste Characteristics		
15. Toxicity/Persistence/Bioaccumulation 16. Hazardous Waste Quantity 17. Waste Characteristics	* * 1000	5.00E+07 10 100
Targets		
18. Food Chain Individual 19. Population 19a. Level I Concentrations 19b. Level II Concentrations	50 **	0.00E+00 0.00E+00 0.00E+00
19c. Pot. Human Food Chain Contamination 19d. Population (lines 19a+19b+19c) 20. Targets (lines 18+19d)		0.00E+00 0.00E+00 0.00E+00
21. HUMAN FOOD CHAIN THREAT SCORE	100	0.00

<sup>\*</sup> Maximum value applies to waste characteristics category. \*\* Maximum value not applicable.

# PREScore 4.0 SURFACE WATER OVERLAND/FLOOD MIGRATION COMPONENT SCORESHEET Westgate Mobile Home ~ 12/31/96

SURFACE WATER OVERLAND/FLOOD MIGRATION COMPONENT Factor Categories & Factors ENVIRONMENTAL THREAT	Maximum Value	Value Assigned
Likelihood of Release		
22. Likelihood of Release (same as line 5)	550	250
Waste Characteristics		
23. Ecosystem Toxicity/Persistence/Bioacc. 24. Hazardous Waste Quantity 25. Waste Characteristics	1000	5.00E+06 10 56
Targets		
26. Sensitive Environments 26a. Level I Concentrations 26b. Level II Concentrations 26c. Potential Contamination 26d. Sensitive Environments (lines 26a+26b+26c) 27. Targets (line 26d)	** ** ** **	0.00E+00 0.00E+00 0.00E+00 0.00E+00
28. ENVIRONMENTAL THREAT SCORE	60	0.00
29. WATERSHED SCORE	100	0.00
30. SW: OVERLAND/FLOOD COMPONENT SCORE (Sof)	100	0.00

<sup>\*</sup> Maximum value applies to waste characteristics category. \*\* Maximum value not applicable.

#### PREScore 4.0 GROUND WATER TO SURFACE WATER MIGRATION COMPONENT SCORESHEET Westgate Mobile Home - 12/31/96

GROUND WATER TO SURFACE WATER MIGRATION COMPONENT Factor Categories & Factors DRINKING WATER THREAT	Maximum Value	Value Assigned
Likelihood of Release to Aquifer Aquifer:	=	:
1. Observed Release 2. Potential to Release 2a. Containment 2b. Net Precipitation 2c. Depth to Aquifer 2d. Travel Time 2e. Potential to Release [lines 2a(2b+2c+2d)] 3. Likelihood of Release	550 10 10 5 35 500 550	
Waste Characteristics		
4. Toxicity/Mobility/Persistence 5. Hazardous Waste Quantity 6. Waste Characteristics	* * 100	2.00E+01 10 3
Targets		
7. Nearest Intake 8. Population 8a. Level I Concentrations 8b. Level II Concentrations 8c. Potential Contamination 8d. Population (lines 8a+8b+8c) 9. Resources 10. Targets (lines 7+8d+9)	50 ** ** ** 5 **	0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00
11. DRINKING WATER THREAT SCORE	100	0.00

<sup>\*</sup> Maximum value applies to waste characteristics category. \*\* Maximum value not applicable.

# PRESCORE 4.0 GROUND WATER TO SURFACE WATER MIGRATION COMPONENT SCORESHEET Westgate Mobile Home - 12/31/96

GROUND WATER TO SURFACE WATER MIGRATION COMPONENT Factor Categories & Factors HUMAN FOOD CHAIN THREAT	Maximum Value	Value Assigned
Likelihood of Release		
12. Likelihood of Release (same as line 3)	550 400	
Waste Characteristics		
13. Toxicity/Mobility/Persistence/Bioacc. 14. Hazardous Waste Quantity 15. Waste Characteristics	* * 1000	1.00E+05 10 32
Targets		
16. Food Chain Individual 17. Population 17a. Level I Concentrations 17b. Level II Concentrations 17c. Pot. Human Food Chain Contamination 17d. Population (lines 17a+17b+17c) 18. Targets (lines 16+17d)	50 ** ** ** **	0.00E+00 0.00E+00 0.00E+00 0.00E+00 0.00E+00
19. HUMAN FOOD CHAIN THREAT SCORE	100	0.00

<sup>\*</sup> Maximum value applies to waste characteristics category. 
\*\* Maximum value not applicable.

# PREScore 4.0 GROUND WATER TO SURFACE WATER MIGRATION COMPONENT SCORESHEET Westgate Mobile Home - 12/31/96

GROUND WATER TO SURFACE WATER MIGRATION COMPONENT Factor Categories & Factors ENVIRONMENTAL THREAT	Maximum Value	Value Assigned
Likelihood of Release		
20. Likelihood of Release (same as line 3)	550 4	
Waste Characteristics		
21. Ecosystem Tox./Mobility/Persist./Bioacc. 22. Hazardous Waste Quantity 23. Waste Characteristics	* * 1000	1.00E+04 10 18
Targets		
24. Sensitive Environments 24a. Level I Concentrations 24b. Level II Concentrations 24c. Potential Contamination 24d. Sensitive Environments (lines 24a+24b+24c) 25. Targets (line 24d)	** ** ** **	0.00E+00 0.00E+00 0.00E+00 0.00E+00
26. ENVIRONMENTAL THREAT SCORE	60	0.00
27. WATERSHED SCORE	100	0.00
28. SW: GW to SW COMPONENT SCORE (Sgs)	100	0.00

<sup>\*</sup> Maximum value applies to waste characteristics category. \*\* Maximum value not applicable.

## PREScore 4.0 SOIL EXPOSURE PATHWAY SCORESHEET Westgate Mobile Home - 12/31/96

SOIL EXPOSURE PATHWAY Factor Categories & Factors RESIDENT POPULATION THREAT	Maximum Value	Value Assigned
Likelihood of Exposure		
1. Likelihood of Exposure	550 550	
Waste Characteristics		
2. Toxicity 3. Hazardous Waste Quantity 4. Waste Characteristics	* * 100	1.00E+04 10 18
Targets		
5. Resident Individual 6. Resident Population	50	4.50E+01
6a. Level I Concentrations	**	0.00E+00
6b. Level II Concentrations	**	1.35E+02
6c. Resident Population (lines 6a+6b)	**	1.35E+02
7. Workers	15	0.00E+00
8. Resources	5	0.00E+00
9. Terrestrial Sensitive Environments		0.00E+00
10. Targets (lines 5+6c+7+8+9)	**	1.80E+02
11. RESIDENT POPULATION THREAT SCORE	**	1.78E+06

<sup>\*</sup> Maximum value applies to waste characteristics category.

\*\* Maximum value not applicable.

\*\*\* No specific maximum value applies, see HRS for details.

# PREScore 4.0 SOIL EXPOSURE PATHWAY SCORESHEET Westgate Mobile Home - 12/31/96

SOIL EXPOSURE PATHWAY Factor Categories & Factors NEARBY POPULATION THREAT	Maximum Value	Value Assigned
Likelihood of Exposure		
12. Attractiveness/Accessibility 13. Area of Contamination 14. Likelihood of Exposure	100 100 500	7.50E+01 4.00E+01 1.25E+02
Waste Characteristics		
15. Toxicity 16. Hazardous Waste Quantity 17. Waste Characteristics	* * 100	1.00E+04 10 18
Targets		
18. Nearby Individual 19. Population Within 1 Mile 20. Targets (lines 18+19)	1 ** **	0.00E+00 0.00E+00 0.00E+00
21. NEARBY POPULATION THREAT SCORE	**	0.00E+00
SOIL EXPOSURE PATHWAY SCORE (Ss)	100	21.60

<sup>\*</sup> Maximum value applies to waste characteristics category.
\*\* Maximum value not applicable.

#### PREScore 4.0 AIR PATHWAY SCORESHEET Westgate Mobile Home - 12/31/96

AIR MIGRATION PATHWAY Factor Categories & Factors	Maximum Value	Value Assigned
Likelihood of Release		
1. Observed Release 2. Potential to Release 2a. Gas Potential to Release 2b. Particulate Potential to Release 2c. Potential to Release 3. Likelihood of Release	550 500 500 500 550	0 220 220 220
Waste Characteristics		
4. Toxicity/Mobility 5. Hazardous Waste Quantity 6. Waste Characteristics	* * 100	2.00E-01 10 1
Targets		
7. Nearest Individual 8. Population	50	0.00E+00
8a. Level I Concentrations	**	0.00E+00
8b. Level II Concentrations	**	0.00E+00
8c. Potential Contamination	**	0.00E+00
8d. Population (lines 8a+8b+8c)	**	0.00E+00
9. Resources	5	0.00E+00
10. Sensitive Environments	. ***	0.000.00
10a. Actual Contamination 10b. Potential Contamination	***	0.00E+00 0.00E+00
	***	0.00E+00
10c. Sens. Environments(lines 10a+10b) 11. Targets (lines 7+8d+9+10c)	**	0.00E+00
AIR MIGRATION PATHWAY SCORE (Sa)	100	0.00E+00

<sup>\*</sup> Maximum value applies to waste characteristics category.

\*\* Maximum value not applicable.

\*\*\* No specific maximum value applies, see HRS for details.

### PREScore 4.0 AIR PATHWAY SCORESHEET Westgate Mobile Home - 12/31/96

#### Record Information

- Site Name: Westgate Mobile Home (as entered in CERCLIS)
- 2. Site CERCLIS Number: SC0000487687
- 3. Site Reviewer: Jonathan McInnis
- 4. Date: 12/30/96
- Site Location: Greer, Greenville County, SC (City/County, State)
- 6. Congressional District:
- 7. Site Coordinates: Single

Latitude: 34°56'16.9"

Longitude: 082°15'27.0"

#### Site Description

- 1. Setting: Urban
- 2. Current Owner: Private Industrial
- 3. Current Site Status: Active
- 4. Years of Operation: Active Site , from and to dates:
- 5. How Initially Identified: State/Local Program
- 6. Entity Responsible for Waste Generation:
  - Manufacturing
  - Primary Metal Industries
  - Electronic Equipment
- 7. Site Activities/Waste Deposition:
  - Other -

#### Waste Description

- 8. Wastes Deposited or Detected Onsite:
  - Organic Chemicals
  - Inorganic Chemicals

### PREScore 4.0 NPL Characteristics Data Collection Form Westgate Mobile Home - 12/31/96

#### Response Actions

- 9. Response/Removal Actions:
  - Emergency Waste Removal Has Occurred

RCRA Information

- 10. For All Active Facilities, RCRA Site Status:
  - Not Applicable

#### Demographic Information

- 11. Workers Present Onsite: No
- 12. Distance to Nearest Non-Worker Individual: Onsite
- 13. Residential Population Within 1 Mile: Unknown
- 14. Residential Population Within 4 Miles: Unknown

#### Water Use Information

- 15. Local Drinking Water Supply Source:
  - No Water Withdrawals Within Target Distance Limits
- 16. Total Population Served by Local Drinking Water Supply Source: Unknown
- 17. Drinking Water Supply System Type for Local Drinking Water Supply Sources:
  - Unknown
- 18. Surface Water Adjacent to/Draining Site:
  - None

### U.S. EPA REGION IV

# SDMS

### **Unscannable Material Target Sheet**

ocID: /0074220 S	Site ID: <u>SCO 042633859</u>
te Name: EXIDE	BATTERY CORP
-	and the second s
ature of Material:	
Attac of Material.	
Map:	Computer Disks:
Photos:	CD-ROM:
Blueprints:	Oversized Report:
Slides:	Log Book:
04-71-23-2	
Other (describe):	· · · · · · · · · · · · · · · · · · ·
Amount of material: #/	

THIS IS A TRUE COPY OF DEPARTMENT OF HEALTH & ENVIRONMENTAL CONTROL PECORDS

THE STATE OF SOUTH CAROLINA

## BEFORE THE DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL

# IN RE: EXIDE CORPORATION SCD 042 633 859 GREENVILLE COUNTY

## CONSENT ORDER 96-12-HW

General Battery Corporation, a wholly-owned subsidiary of Exide Corporation, owns a lead-acid battery manufacturing facility in Green, South Carolina, which is leaded and operated by Exide Corporation ("facility" or "site").

### FINDINGS OF FACT

In the early 1960's, Bowers Battery (which later changed its name to General Battery and Ceramic Corporation and in 1968, to General Battery Corporation) began operation at the Green facility. Exide Corporation began operation at the site in May of 1987.

An earthen lagoon was constructed at the facility in the early 1960's by Bowers Battery for the treatment of industrial wastewater. Subsequently the groundwater became contaminated with lead and sulfates. In 1977, General Battery Corporation constructed a neutralization system at the plant site for pretreatment of wastewater prior to discharge into the city sewer system. The lagoon was not used for the treatment of industrial wastewater after the completion of the pretreatment system and the lagoon was properly closed in 1982.

On June 8, 1984, the Department issued a permit for the construction of a groundwater recovery and treatment program for groundwater remediation. The recovery and treatment facility was constructed and remains in operation to date.

TIEL TIT 0000 1017 NO TT

TWEET

In April, 1986, the Department determined that the soil in the drainage areas at the back of the plant site was contaminated with lead. On July 8, 1986, Administrative Consent Order 86-36-SW between the Department and General Battery Corporation was executed which required the submittal of the site assessment plan for a comprehensive study of the facility to identify all areas of soil contamination. A site assessment was submitted by General Battery Corporation and approved by the Department to address contamination at the facility. During implementation of the approved plan, Exide Corporation removed approximately 1039 tons of contaminated soil, of which 854 tons were determined to be a characteristically hazardous waste for lead. The trea where the soils were removed was limed at a rate of 2000 lbs/acre, graded and hydro-seeded. On August 24, 1990, Exide Corporation notified the Department that the soil remediation was complete.

On February 21, 1991, the Depuriment received a citizen's complaint which was related to the removel of soil from the Enide plant site.

On February 22, 1991, Department personnel met with. Exide representatives to discuss the citizen's complaint. Exide personnel told the Department that it was in the process of extending the raw materials container storage area at the site. The soil was excavated and stockpiled onsite, then regraded to allow for the proper fill material to be placed prior to the asphalt. It was determined that, on or about January 18, 1991, the unused, excavated soil was taken to Cochran Motors property, located at 1455 Wade Hampton Boulevard in Greenville County, where it was used as fill by the owner of the Cochran Motors' property. The Department and Exide collected split samples at the Cochran Motor's site. A composite sample was collected from various locations along the surface of the fill area. Exide's results, as analyzed and reported by an independent laboratory indicated a total lead concentration of 2100 ppm and a Toxicity Characteristic Leaching Procedure ("TCLP")

lead concentration of 73 ppm. Department results were 7500 ppm total lead. Based on Exide's results, the soil excavated from the Exide plant site and transported and disposed of offsite by Exide is considered a hazardous waste by characteristic.

On April 3, 1991, the Department issued a Notice of Violation to Exide citing violations and scheduling an enforcement conference for April 25, 1991, to discuss the cited violations. During the enforcement conference, Exide told the Department that on January 18, 1991, approximately 100 cubic yards of soil was removed from Exide's property and disposed of offsite by a contractor. (In an affidavit submitted by Exide on June 7, 1991, the contractor (T & G Construction) stated that it removed approximately 80 to 90 cubic yards from Exide's property).

On March 15, 1991, Exide initiated the removal of the contaminated soil from the Cochran Motors' fill site. The contaminated soil was transported by a permitted hazardous waste transporter to a permitted hazardous waste disposal facility.

On June 7, 1991, Exide submitted to the Department the "Final Report of Soil Clean-up/Remedial Activities" ("Report") to document the efforts which were undertaken by Exide to remove the soil from the Cochran Motors' property. A narrative was not included in the Report. The Department has determined the following based on information from the Report:

- 1) The Cochran Motors dump site is located on an area approximately 95 feet by 75 feet.

  A creek is located to the east of the dump site
- 2) Between March 15, 1991 and March 29, 1991, Exide excavated and removed four bundred two thousand, three hundred and eighty pounds (402,380 lbs.) of soil including lead contaminated soil with asphalt and gravel and delivered the material to a permitted hazardous waste disposal facility.

- In order to verify the adequacy of Exide's removal activities, the Cochran Motors' fill site was divided into six areas for sampling. Also, two surface water samples were scheduled to be collected from the creek.
- 4) On April 5, 1991, composite soil samples were collected and analyzed by Exide's consultant from each sample area. TCLP lead levels from the six sampling points were 13 mg/l, 12 mg/l, 21 mg/l, 11 mg/l, <31 mg/l and 5 mg/l. Also, on April 5, 1991, two surface water grab samples were collected from the creek. Based upon data submitted by Exide, Sample #3 (upstream) results were .06 mg/l lead while sample #8 (downstream) results were .04 mg/l lead.
- 5) Following receipt of laboratory data for soil samples collected on April 5, 1991, Exide completed the excavation and disposal of additional soil from the Cochran Motors' site. On April 22, 1991, grab soil samples were collected (with the exception of sample area #6 from which no additional soil was removed) to verify the adequacy of the second removal. TCLP lead levels from five sample points were reported as 10 mg/l, .2 mg/l, .5 mg/l, .14 mg/l, and .04 mg/l. Following receipt of the data. Exide initiated additional removal of soil a sample area #1.
- 6) Between April 22, 1991 and May 22, 1991, one hundred sixteen thousand, five hundred and sixty pounds (116,560 lbs.) of soil including lead contaminated soil with asphalt and gravel was excavated from the Cochran Motors' site by Exide. During the entire removal process. Exide excavated five hundred eighteen thousand, nine hundred and forty pounds (518,940 lbs.) of soil including lead contaminated soil with asphalt and gravel and delivered the material to the hazardous waste disposal facility.
- 7) On May 23, 1991, a soil grab sample was collected from sample area #1. Exide's results indicated a total lead concentration of 190 mg/kg and a TCLP lead concentration of 2.8 mg/L.

APPENDIX B

APPENDIX C

-----

On August 1, 1991, Exide submitted to the Department a narrative explaining the sampling and remediation activities at the Cochran Motors' site. The narrative included number and locations of soil composite samples and a review of reasons for the collection and analysis of soil samples during the second and third sampling rounds.

On August 16, 1991, the Department issued a letter to Exide requesting that arrangements be initiated with the Department to conduct additional sampling at the Cochran Motors' site to determine background conditions.

On November 4, 1991, the Department received the results from additional sampling conducted by Exide at the Cochran Motors' site and determined that restoration of the site should commence as soon as possible.

## CONCLUSIONS OF LAW

Exide has violated the South Carolina Hazardous Waste Management Regulations, 25 S.C. Code Regs. 61-79 (Law Co-op. 1976 & Supp. 1994), promulgated pursuant to the South Carolina Hazardous Waste Management Regulations, South Carolina Code Ann. Sections 44-56-10 et seq. (Law Co-op. 1976 & Supp. 1994). Exide has violated the following:

- 1) R.61-79.262.11, for failure to make a hazardous waste determination;
- 2) R.61-79.262.12(c), for offering hazardous waste to a transporter or disposal facility that has not received an EPA Identification Number and a Department permit;
- 3) R.61-79.262.20(a), for not preparing a manifest before offering hazardous waste for transportation offsite;
- 4). R 61-79.262 Subpart C, Pre-Transport Requirements, for failure to properly seckage,
  :
  label, mark and placard hazardous waste before offering the hazardous waste for transportation

offsite;

5) R.61-79.270.1(b), for disposing of a hazardous waste without first applying for and receiving a Department permit for that activity.

Also, Exide has violated the Pollution Control Act, South Carolina Code Ann. Sections 48-1-10 et seq. (Law Co-op 1976 & Supp. 1994) in that it is unlawful for any person, directly or indirectly, to throw, drain, run, allow to seep or otherwise discharge into the environment of the State organic or inorganic matter, including sewage, industrial wastes and other wastes, except as in compliance with a permit issued by the Department.

NOW THEREFORE IT IS ORDERED with the consent of Exide and pursuant to Sections 48-1-50, 44-56-130, and 44-56-140 of said Code, as amended, that Exide agrees to the following:

- 1) Ensure future compliance with the South Carolina Hazardous Waste Management Regulations;
  - 2) Ensure future compliance with the Pollution Control Act;
- 3) Within thirty (30) days of the effective date of this order, provide to the Department for approval documentation that the Cochran Motors' site has been properly remediated and restored;
- Within thirty (30) days of the effective date of this order, submit, to the Department for approval, a Site Assessment Work Plan ("SAWP") for the entire Exide facility, to identify areas of soil lead contamination and potential soil lead contamination at the site. The SAWP shall address all areas where spillage and runoff might have occurred, or could occur, causing an adverse impact to the environment, including vegetated areas and covered areas including, but not limited to, asphalt and concrete parking areas. The SAWP shall evaluate the vertical and horizontal extent of lead contamination and potential lead contamination. The SAWP shall also include a schedule for all

major work activities under the SAWP. Within thirty (30) days of notification of approval of the SAWP by the Department, Exide will initiate the soil sampling in accordance with the approved plan and schedule.

- Within forty-five (45) days of completion of the work required under the SAWP, Exide shall submit a written report to the Department outlining all sample results. This report shall also include, for Department approval, a Remediation Plan for the proper remediation of any soil or groundwater contamination consistent with continued use of the facility and land use in the area. Remediation in accordance with the Department approved Remediation Plan shall begin within thirty (30) days of Department approval of said plan. A final report shall be submitted to the Department, within thirty (30) days of completing remediation, to document remedial activities.
- 6) Within thirty (30) days of Depz-tment approval of the writteh report submitted after completion of the Focused Investigation/Study Work Plan for the Kings Acres Subdivision as described in Consent Agreement 95-30-HW, submit to the Department a remediation plan to address removal and proper disposal of all soils with a total lead level value as deemed necessary by the Department.
- 7) Within sixty (60) days of the effective date of this order, submit to the Department a Remedial Investigation Work Plan ("RI") to investigate lead contamination in the Westgare Trailer Park. The RI shall include, but not be limited to, investigation of the source(s), adequate delineation of all potential areas of contamination, evaluation of remedial alternatives and a Risk Assessment for Westgate Trailer Park as deemed necessary by the Department.
- 8) If the Department determines that remediation of the Westgate Trailer Park is necessary, Exide shall submit a Remediation Plan for Westgate Trailer Park to address removal and

proper disposal of all contaminated soils as deemed necessary by the Department. This Remediation Plan shall include an approvable schedule for all major work activities described in the Remediation Plan.

- 9) All plans submitted to the Department for approval shall be consistent with the technical intent of the National Contingency Plan. All Occupational Safety and Health Act (OSHA) regulations and protocols shall be followed.
- If any event occurs which causes or may cause a delay in meeting any of the above-10) scheduled dates for completion of any specified activity pursuant to the approved Work Plan, Exide shall notify the Department in writing at least five (5) days before the scheduled date. Exide shall describe in detail the anticipated length of the delay, the precise cause or causes of delay, if ascertainable, the measures taken or to be taken to prevent or minimize the delay, and the timetable by which Exide proposes that those measures will be implemented. The Department shall provide written notice to Exide as soon as practicable that a specific extension of time has been granted or that no extension has been granted. An extension shall be granted for any scheduled activity delayed by an event of force majeure which shall mean any event arising from causes beyond the control of Exide that causes a delay in or prevents the performance of any of the conditions under this Consent Order including, but not limited to: a) acts of God, fire, war, insurrection, civil disturbance. explosion; b) adverse weather conditions that could not be reasonably anticipated causing unusual delay in transportation and/or field work activities; c) restraint by court order or order of public authority; d) inability to obtain, after exercise of reasonable diligence and timely submittal of all applicable applications, any necessary authorizations, approvals, permits, or licenses due to action or inaction of any governmental agency or authority; and e) delays caused by compliance with

applicable statutes or regulations governing contracting, procurement or acquisition procedures, despite the exercise of reasonable diligence by Exide. Events which are not force majeure include by example, but are not limited to, unanticipated or increased costs of performance, changed economic circumstances, normal precipitation events, or failure by Exide to exercise due diligence in obtaining governmental permits or performing any other requirement of this Order or any procedure necessary to provide performance pursuant to the provisions of this Order. Any extension shall be granted at the sole discretion of the Department, incorporated by reference as an enforceable part of this Consent Order, and, thereafter, be referred to as an attachment to the Consent Order.

- The Department agrees that access to property owned by Exide will be restricted to representatives of Exide, its consultants, contractors and invited guests except as modified herein. Employees of the Department and the EPA and their respective consultants and contractors will not be denied access during normal business hours or at any time work under the approved Work Plan is being performed or during any environmental emergency or imminent threat situation, as determined by the Department (or as permitted by applicable law). Exide shall make reasonable efforts (which shall include but not be limited to written requests to the property owners requesting access, describing the activity for which access is requested, and a commitment to return the property to the condition it was in prior to the activity for which Exide sought access) to gain access to any property not owned by Exide but affected by the work in this Consent Order. The Department shall not be a party to any contract, lease, or other agreement between Exide and the property owner. The Department shall determine in its discretion whether Exide has made good faith efforts to obtain access to any property necessary to comply with this Order.
  - 12) With regards to third party actions, Exide does not admit, accept or concede the

Findings of Fact or Conclusions of Law set forth in this Consent Order and specifically reserves the right to contest any such Findings of Fact or Conclusions of Law in any third party action regarding the Site. The Consent Order shall be admissible in any enforcement action brought by the Department but may not be utilized by third parties against Exide as proof of any allegations, findings or conclusions contained herein.

Exide specifically denies any responsibility for response costs or damages, and does 13) not, by signing this Consent Order, waive any rights which it may have to assert any claims in law or equity against any other person, company or entity with respect to the Site.

IT IS FURTHER ORDERED AND AGREED that failure to comply with the requirements of this Order shall be deemed a violation of the South Carolina Hazardous Waste Management Act and the South Carolina Pollution Control Act and therefore shall be deemed unlawful. Upon ascertaining any such violation, the Department may promptly initiate appropriate action to obtain compliance with both this Order and the aforesaid Acts including but not limited to the assessment of a civil penalty of up to the statutory limit of twenty-five thousand dollars (\$25,000.00) per day per violation for the violations cited herein.

> THE SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL

DATE: 4/9/96

WE CONSENT:

**EXIDE CORPORATION** 

DATE: April 3 1886

Jain Hyllus	DATE:_	April 3/996
THE SOUTH CAROLINA DEPARTMENT	of Heal	TH AND ENVIRONMENTAL CONTROL
Hartsill W. Truesdale, P.E., Chief Bureau of Solid and Hazardous Waste Management	DATE:_	4/9/96
Approved by: Legal Office	_ DATE:_	4/9/94



# REMEDIAL INVESTIGATION WORK PLAN WESTGATE TRAILER PARK

GREER, SOUTH CAROLINA

Prepared for EXIDE CORPORATION

Greer, South Carolina

Prepared by THE FLETCHER GROUP, INC.

June 1996

Kathryn W. Webb, PG Project Hydrogeologist Westgate Trailer Park

Remedial Investigation Work Plan

## June 1996

## **Table of Contents**

Section	ł		<u>Page</u>				
1.0	Execut	ve Summary	1				
2.0	Previous Investigations and Removal Actions						
3.0	Propose	ed Investigation Activities	5				
4.0	Implen	nentation Schedule	9				
List of	Figures						
Figure :		Map of the Area Surrounding the Westgate Trailer Park Weston Soil Sample Location Map, June 29, 1994	2				
Figure :		Proposed Soil Sample Location Map.					
List of	Tables						
Table I		Summary of Sample Containers. Holding Times and Analytical Procedures					
Table 2	<b>!</b>	Site Assessment Implementation Schedule	9				
List of	Append	lices					
Append		Consent Agreement 96-12-HW					
Append Append		Historical Aerial Photographs SC DHEC and US EPA Data and Correspondence					
Append Append		Health and Safety Plan Quality Assurance/Quality Control Plan					
• •		•					

Westgate Trailer Park
Remedial Investigation Work Plan

June 1996

### 1.0 Executive Summary

The following Remedial Investigation Work Plan (RIWP) has been prepared to investigate areas of potential lead impacted soil in the Westgate Trailer Park on Old Chick Springs Road in Greer. South Carolina. This work plan is required by the South Carolina Department of Health and Environmental Control (SC DHEC) Consent Agreement 96-12-HW (the "CA") (Appendix A).

The Westgate Trailer Park is located at the intersection of Old Buncombe Road and Old Chick Springs Road in Greer, South Carolina (Figure 1). The trailer park consists of approximately 52 mobile homes located on a 5 acre tract. The trailer park was determined by the US EPA in 1994 to be at least 25 years old and is suspected to have been a former peach orchard. According to available aerial photographs, the trailer park was partially established in 1968 and expanded to its current size by 1970 (Appendix B). An Exide Battery facility is located adjacent to the southwest side of the trailer park. The Exide facility has been used for the manufacture of lead acid batteries since the early 1960's.

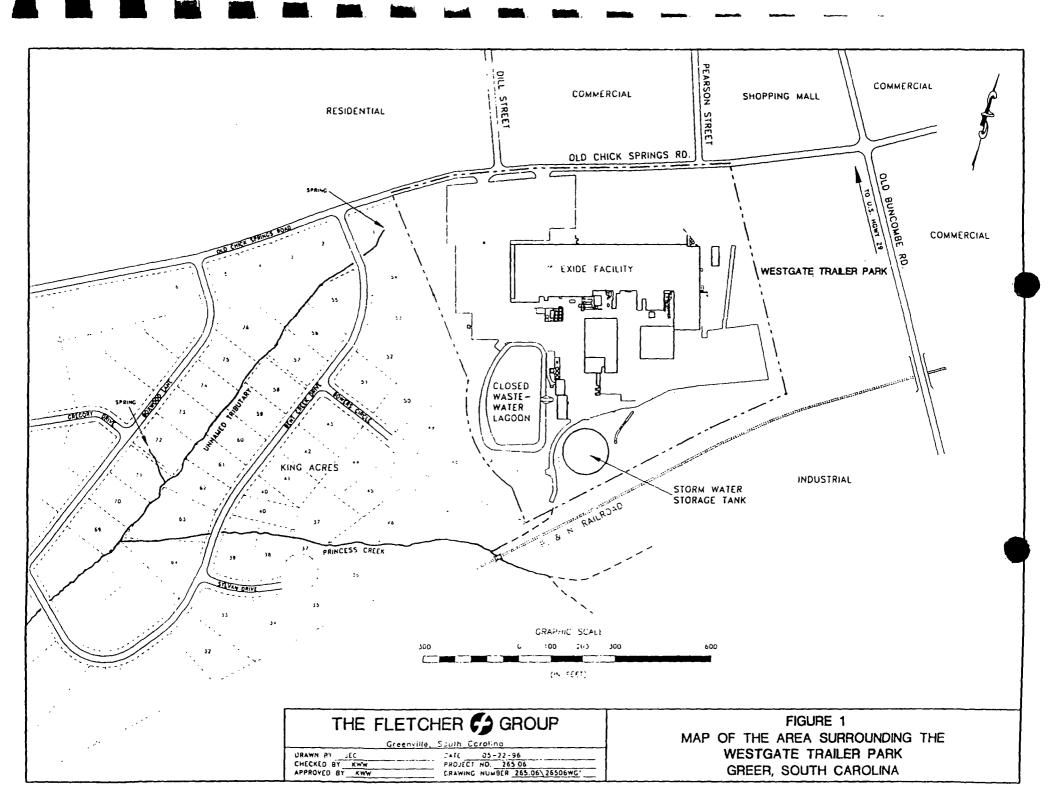
Since 1992, the SC DHEC has conducted a number of lead investigations in the Westgate Trailer Park. In June 1994, under contract with the United States Environmental Protection Agency (US EPA), Roy F. Weston Inc. collected fifty (50) shallow soil samples (0-3 inches) for total lead analysis across the grassed areas of the trailer park. Six (6) of the shallow soil samples contained total lead concentrations greater than 500 ppm. As a follow-up to the soil sampling, the US EPA had the shallow soil from the six (6) identified areas excavated in September 1994 (verbal communication with Warren Dixon, EPA). Reportedly a grid of approximately 10 to 15 feet around each location was removed. According to Mr. Dixon, no sampling of the soil remaining in the trailer park has been conducted since September 1994.

The following RI work plan has been designed to investigate the potential lead impacted soil remaining in the Westgate Trailer Park following the removal action. The proposed investigation will build on the previous investigation by the US EPA to assess the lead concentration in the surface soil throughout the trailer park. In addition, as assessment of potential source pathways of the lead concentrations will be conducted.

The RI investigation will include the sampling and analysis of thirty five (35) surface soil samples for total lead analysis within the Westgate Trailer Park. The surface soil samples will be collected from a depth of 0 to 3 inches. In summary, including four (4) duplicate samples, a total of thirty nine (39) additional soil samples will be collected and analyzed for total lead during the remedial investigation.

Analysis of available air monitoring and surface water run off data will be reviewed in an attempt to identify pathways for lead deposition within the Wastgate Trailer Park.

Following receipt of the verified analysis of all the surface samples, a summary report will be submitted to SC DHEC. Upon review of the remedial investigation data with SC DHEC it may be appropriate to conduct a follow-up investigation of potential source(s), further delineation of potential areas of contamination, an evaluation of remedial alternatives and/or a Risk Assessment for the Westgate Trailer Park.



Westgate Trailer Park Remedial Investigation Work Plan

June 1996

## 2.0 Previous Investigations and Removal Actions

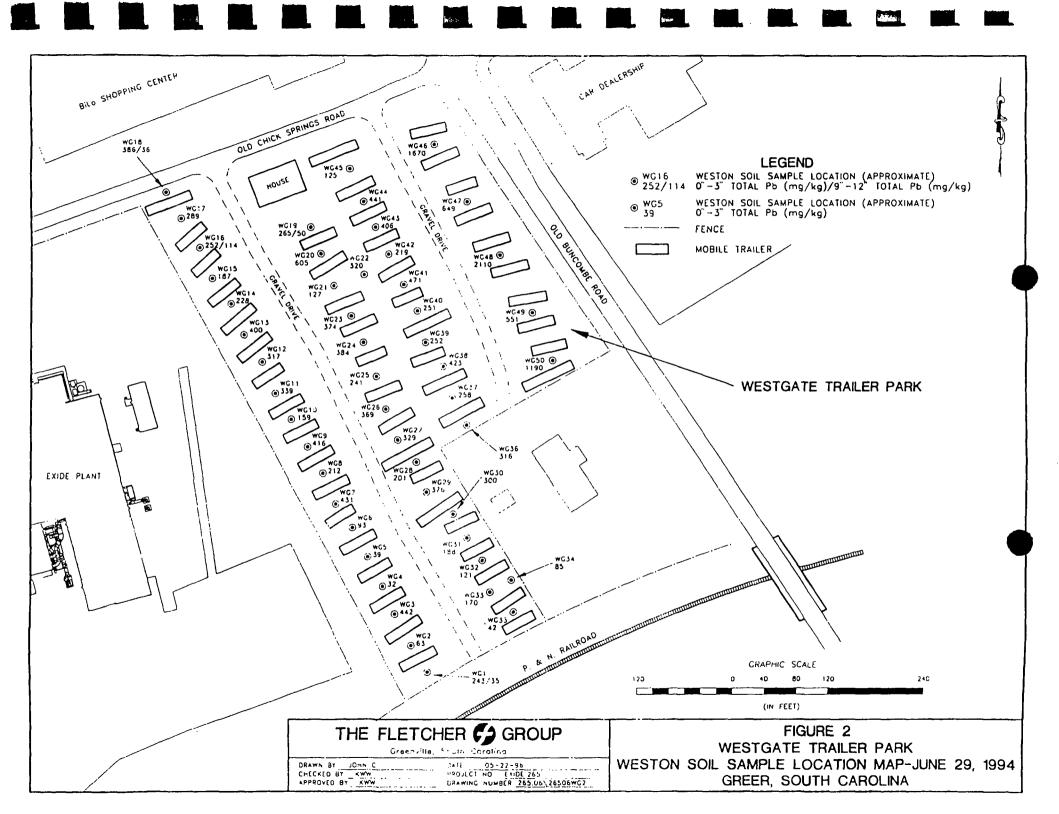
In January 1992, SC DHEC collected surface soil samples from three (3) locations in the Westgate Trailer Park. The total lead concentrations ranged from 270 ppm to 800 ppm. The sampling was repeated in March 1992, with total lead and TCLP lead analyzed on the three (3) samples. The total lead concentrations were similar to the January results (total lead concentrations ranged from 340 to 780 ppm). The TCLP lead results were all less than 1 mg/l and, therefore, SC DHEC determined that the soil did not present an environmental problem (SC DHEC memo from Harold Seabrook to M. Anderson, dated May 28, 1992). The SC DHEC correspondence, laboratory reports and sampling map are included in Appendix C.

In June 1994, the US EPA, using Roy F. Weston as a contractor, and the SC DHEC conducted a follow-up soil sampling event. Fifty (50) soil sample locations were chosen as shown on Figure 2. A surface soil sample was collected from a depth of 0 to 3 inches in most of the yards within the trailer park. At four (4) of the sample locations, a subsurface soil sample was collected from a depth of 9 to 12 inches. The total lead concentrations detected in the samples are posted on Figure 2. The table of lead results and a sample location map from the Weston report are included in Appendix C. Six (6) of the shallow soil samples exceeded a total lead concentration of 500 ppm. The subsurface soil samples had total lead concentrations of 114 ppm or less.

In September 1994, the US EPA conducted a removal action in the six (6) areas with lead concentrations greater than 500 ppm. The 500 ppm criteria was based upon the cleanup goal for the nearby Elmore Waste Disposal Site, located approximately 2 miles from the trailer park. According to the soil removal work plan, a grid of approximately 10 to 15 feet around each of the six (6) sample locations was excavated. Clean soil was to have been backfilled into the excavations. The US EPA has not prepared a follow up report documenting the activities conducted during the removal action.

SC DHEC also conducted a short term air monitoring program in the Westgate Trailer Park from December 1994 through May 1995. An air monitoring station was set up in the trailer park and was monitored by SC DHEC as a comparison to an air monitoring station located on Exide's property, near the trailer park. The results indicated a good correlation between the data recorded at the Exide air monitoring station and the station in the trailer park. The air-borne lead detected in the trailer park was also consistently less than that recorded at the Exide station (SC DHEC memorandum dated March 22, 1995, Appendix C).

To date, no source for the elevated lead in the trailer park surface soil has been identified by US EPA or SC DHEC.



Westgate Trailer Park Remedial Investigation Work Plan

June 1996

### 3.0 Proposed Investigation Activities

The Remedial Investigation soil assessment activities will be conducted following the written approval from SC DHEC of this work plan and authorization from the trailer park property owner. The soil sampling will be performed by experienced sampling personnel familiar with the protocol described in this work plan, including the Health and Safety plan (provided in Appendix D). New, disposable sampling equipment will be used where possible to avoid the possibility of cross-contamination between locations. All the sampling activities will be documented in a bound field notebook, in waterproof ink, with the pages dated and initialed by the sampler(s). The sample locations will be measured from permanent structures for location on a scaled map. Where possible, the locations will also be staked or marked with surveyors paint for future reference.

The Westgate Trailer Park is privately owned property with tenants renting the trailers and/or trailer lots. Exide, or its contractor, will send a written request to the property owner, via certified mail, requesting access for the soil sampling proposed on the property. The letter will include a description of the planned activities and a commitment to return the property to the condition it was in prior to the sampling. The property owner will be requested to sign the access agreement and to return the signed copy to Exide, or to its contractor, within 2 weeks of receipt of the letter. A stamped envelope addressed to Exide, or its contractor, will be included in the mailing to encourage a response.

If the property owner does not respond within the 2 week period, he will be called and encouraged to allow the proposed sampling. If Exide, or its contractor, is unable to reach the property owner on the telephone, or is unable to reach an access agreement over the telephone, an Exide representative will attempt to visit the individual in-person to obtain the access agreement. If all of the above efforts to gain access fail, Exide, or its contractor, will have an affidavit prepared documenting that access was denied.

Following the receipt of the written access agreement, the soil sampling will be scheduled. The owner of the trailer park also be asked to provide the names and the telephone numbers of the current trailer park tenants so they can be notified of the proposed soil sampling by Exide.

The soil sampling will involve collecting surface soil samples for total lead analysis at thirty five (35) sample locations around the trailer park. The trailer park sample locations have been chosen to assess the surface soil conditions around the six (6) former soil removal areas and as well as the general surface soil conditions around other areas of the trailer park. Samples within and surrounding the former soil removal areas are proposed. The remainder of the sample locations have been chosen where previous lead concentrations were greater than 400 ppm.

All the soil samples will be collected from a depth of 0 to 3 inches below the ground surface. All the soil samples will be submitted for total lead analysis.

New, disposable stainless steel spoons and decontaminated stainless steel hand augers will be used for sample collection. The samples will be blended in the field using new, disposable aluminum pans, and jarred. The stainless steel hand auger bucket will be completely decontaminated prior to each use. The

New, disposable stainless steel spoons and decontaminated stainless steel hand augers will be used for sample collection. The samples will be blended in the field using new, disposable aluminum pans, and jarred. The stainless steel hand auger bucket will be completely decontaminated prior to each use. The decontamination procedures are described in Appendix E. All the sampling activities will be logged in the field book and proper chain of custody will follow the samples from the time of sample collection through the process of laboratory analysis and reporting. The disposable sampling equipment will be bagged and properly disposed with similar Exide plant wastes. Any decontamination fluids generated will be containerized and disposed via the Exide wastewater treatment facility.

A summary of the sample container type, analytical method and holding time to be used for the investigation is provided as Table 1. The samples will be submitted to a laboratory certified in the State of South Carolina for analyses. Additional details concerning the quality assurance/quality control (QA/QC) procedures to be used on the project, including the definitions of and the number of QA/QC samples are included in Appendix E. As a quality control measure, four (4) duplicate soil samples will be submitted to the laboratory. One of the duplicates will be identified as such to the laboratory and the others will be given a fictitious sample identification numbers and will be submitted to the laboratory as a blind duplicates. In addition, one equipment rinsate blank per field sampling day will be collected for total lead analysis.

Table 1. Su	mmary of Sample C	Containers, Holding T	imes and Analytica	l Procedures
Parameter	Analytical Method	Sample Volume and Container	Preservative	Maximum Holding Time
Total Lead	SW-846 7420 or SW-846 6010	100 grams in plastic or glass container	Cool, 4° C	6 Months

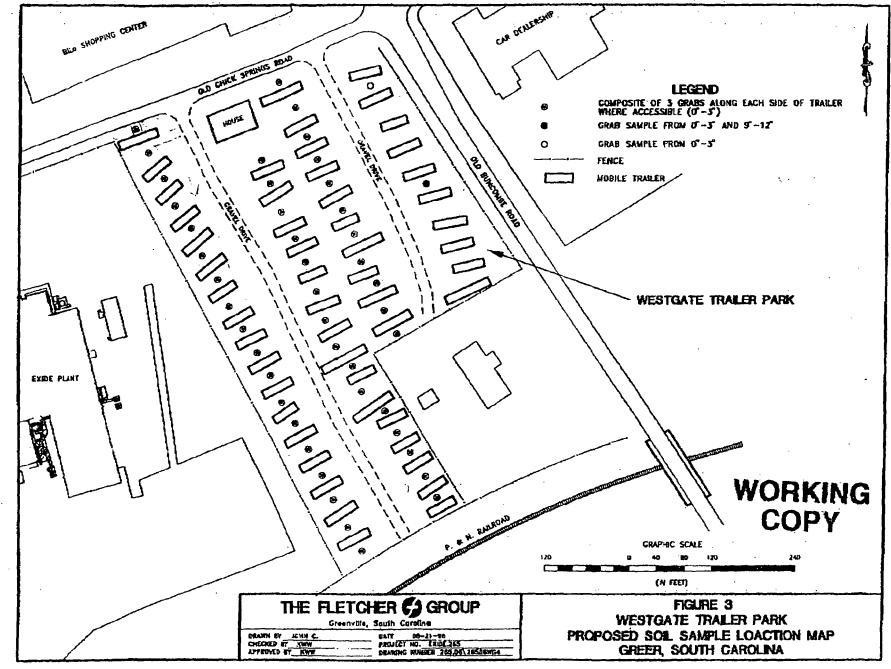
Exide will submit to SC DHEC a written report describing the investigation activities and the results, within forty-five (45) days after receipt of the validated analytical soil sample data. The report will include summary tables of the sample data, laboratory reports and chain of custody form(s), and map(s) of the actual sample locations with the posted lead concentrations. The summary report will address potential source(s) of the elevated lead, if detected and delineation of areas of contamination, if detected. The summary report may also include an evaluation of remedial alternatives and propose a Risk Assessment if the current lead concentrations appear to warrant such activities.

The Fletcher Group, Inc.

**Exide Corporation** 

Westgate Trailer Park Remedial Investigation Work Plan June 1996

Exide operates four (4) ambient air monitors to sample lead-in-air concentrations in the vicinity of its facility located adjacent to the Westgate Trailer Park. One of these monitors is located on Exide property near the trailer park. Data recorded at the Exide air monitoring station will be analyzed in attempt to determine if air emissions from the facility may have contributed to the lead concentrations remaining in the trailer park. Information on surface water runoff patterns is also available from past studies and implementation of an extensive surface water collection system at the Exide facility. This information will also be analyzed in attempt to determine if surface water runoff may have been a contributor.



Westgate Trailer Park

June 1996

Remedial Investigation Work Plan

## 4.0 Implementation Schedule

The following is the proposed Remedial Investigation implementation schedule. The dates will be based upon the SC DHEC written approval of the work plan.

Table 2. Remedial Investigation Implementation Schedule					
Task No. and Description	Proposed Schedule				
No. 1 Obtain permission from the trailer park property owner to conduct the soil sampling	Request access within 30 days for SC DHEC Approval of the work plan				
No. 2 Conduct Surface and Subsurface Soil Sampling and Submit the Soil Samples for Analysis	Initiate Within 30 days of Obtaining Approval from the Property Owner				
No. 3 Submit Summary Report to SC DHEC	Within 45 working days of Receipt of Verified Soil Data				



Building 300, Suite 325 1575 Northside Drive, N.W., Atlanta, Georgia 30318-4208 404-352-4147 • Fax 404-352-0659

## TECHNICAL ASSISTANCE TEAM FOR EMERGENCY RESPONSE REMOVAL AND PREVENTION EPA CONTRACT 68-WO-0036

#### **MEMORANDUM**

TO:

Warren Dixon, OSC

EPA, Region IV

FROM:

Ronald Starks

TAT. Region IV

THRU:

W. Scott Butterfield MUSS

TATL, Region IV

SUBJECT:

Westgate Trailer Site Removal

Greer, Spartanburg County, South Carolina

TDD# 04-9408-0016-5087

TAT# 04-F-01413

DATE:

25 October 1994

#### **SITUATION**

This report has been prepared in accordance with the requirements of Technical Direction Document (TDD) #04-9408-0016, assigned to the Roy F. Weston, Incorporated Technical Assistance Team (TAT), by the U.S. Environmental Protection Agency (EPA).

The overall scope of this TDD was to monitor the removal of soil from designated areas of the Westgate Mobile Home Park that had lead concentrations greater than 500 ppm. The trailer park was located behind Highway 29, at the intersection of Old Chick Springs Road and Buncombe Avenue and consists of 50 mobile homes (See Figure 1, Site Location Map). Westgate trailer park is bordered by Exide Battery facility, which is approximately 180 feet to the west. The Exide facility is contracted by numerous companies to make batteries. They have four air monitoring stations around the plant and each quarter of the year Exide sends the results to the South Carolina Department of Health and Environmental Control (DHEC). The emissions have been within regulatory limits and investigations to pinpoint the source of the lead contamination at the trailer park have been inconclusive to this point. During the site investigation the Technical Assistance Team (TAT) collected a total of fifty-tive samples from the Westgate Trailer Park and at the Bent Creek Road residence.

The soil samples were submitted to ETC, Gulf South Laboratory for total lead analysis. According to the analytical results received, six areas were above the level of 500 parts per million (ppm), and were designated by the OSC to have the soil excavated to a depth of 18" to eliminate the threat of lead poisoning to the residents of the mobile community. The Technical Assistance Team (TAT) was tasked by the Region IV On-Scene Coordinator (OSC), to provided site documentation (See Attachment D, Site Safety Plan) and oversight of the ERCS contractor, during the removal operation. Additionally TAT took Photodocumentation of site activities (See Attachment A, Photos) and daily log notes (See Attachment B, Log Notes), along with a list of official participants on the site (See Attachment C, Table of Witnesses).

#### **SUMMARY**

On 8 September 1994, TAT member Starks mobilized to the Westgate Trailer park site and met OSC Warren Dixon and the Emergency Removal Contractors Response Manager who were already on-site. The South Carolina Department of Utilities and Electric were on site locating underground power and sewer lines. The locations of underground lines were marked with spray paint. The main area of excavation would be in the row of trailers numbered 1 thru 10, and between trailers 22 and 23 (See Figure 2, Site Diagram for the exact location). The contaminated soil in the areas between the trailers and up to the access drive was excavated to a depth of 18", removed and sent to Palmetto Landfill and Recycling Center, 251 New Hope Road, Wellford, SC 29385. In the area between trailers 22 and 23 a tree was removed because its surface root system interfered with the excavation. The owner of the trailer park approved of its removal.

The purpose of this removal was to eliminate the threat of lead poisoning to residents of the trailer park. A total of 1200 tons of contaminated soil were sent to Palmetto Landfill and Recycling center (See Aattachment E. Manifests). A total of 50 truck loads of cleanfill was received from Grady Minority Business enterprise. A sample of the clean soil was sent to James H. Carr & Associates, Inc. Environmental Services for analysis. The results indicated 8.36 mg/kg of lead which met the regulatory limits for pollutants (See Attachment F). The area of the soil excavation was restored to resemble its original landscape.

### CONCLUSION

This completes the removal action, no further site activities are planned.

#### **ATTACHMENTS**

Figures 1-2 Maps & Sketches Attachment A - Photographs

B - Log Notes

C - Table of Witnesses

D - Site Safety Plan

E - Waste Manifest

F - Lab Analysis



Commissioner: Michael D. Jarrett

Board: John B. Pate, MD. Chairman

William E. Applegate, Ill, Vice Chairman

John H. Burnss. Secretary

Toney Graham, Jr., MD Richard E. Jabbour, DDS Henry S. Jordan, MD Currie B. Spivey, Jr.

Promoting Health, Protecting the Environment

**MEMORANDUM** 

DATE: March 4, 1992

TO:

File

Exide Corporation Greenville County

FROM:

Mary Anderson

Appalachia II EQC

RE:

Soil Sampling

Westgate Mobile Home Park

**BECEANING** 

APR 12 1994

S. C. Dept. of Hearing Control-Bureau of Solid & Hazardous
Waste Management

On March 3, 1992, the writer collected soil samples from the Westgate Mobile Home Park adjacent to the Exide Corporation. Three samples were collected for TCLP metals in response to results of total metals samples collected on January 28, 1992. Results of the earlier samples indicated lead levels of 270 ppm, 560 ppm, and 800 ppm at Stations 1, 2, and 3 respectively (see attached sketch). The samples submitted for TCLP analysis were collected at the same depth (1 to 3 inches) and adjacent to the previous sample locations.

cc: Doug Blansit, Health Hazard Evaluation Harold Seabrook, BSHWM



Building 300, Suite 325 1575 Northside Drive, N.W., Atlanta, Georgia 30318-4208 404-352-4147 • Fax 404-352-0659

## TECHNICAL ASSISTANCE TEAM FOR EMERGENCY RESPONSE REMOVAL AND PREVENTION EPA CONTRACT 68-WO-0036 MEMORANDUM

TO:

Warren Dixon, OSC

EPA, Region IV

FROM:

Ann Roat

THRU:

SUBJECT: Exide Battery Site Investigation

TATL, Region IV

Lestgate Mobile Home Site Site Investigation

Greer, Greenville County, South Carolina

TDD #04-9406-0017-4989 0017A-5046

TAT #04-F-01347

DATE:

03 August 1994

## **SITUATION**

This report has been prepared in accordance with the requirements of Technical Direction Document (TDD) #04-9406-0017, assigned to the Roy F. Weston, Incorporated Technical Assistance Team (TAT), by the U.S. Environmental Protection Agency (EPA).

The overall scope of this TDD was to sample areas of the Westgate Mobile Home Park and other residential areas in close proximity to the Exide Battery facility. This trailer park is located behind Highway 29, off of Old Chick Springs Road and consists of 50 mobile homes. The Exide Battery facility, which is approximately 180 feet to the west of the trailer park, is contracted by numerous different companies to make batteries. They have four air monitoring stations around the plant and each quarter of the year Exide sends the results to the South Carolina Department of Health and Environmental Control (DHEC). The results of air monitoring have not been above the DHEC legal limits so far although, the facility has noted groundwater contamination. According to a map acquired from DHEC, there are 24 monitoring wells for continuous use, 16 capped wells, 9 recovery wells, and 6 surface water monitoring stations to monitor this situation. This Exide plant may also have illegally dumped contaminated soil sometime between 1987-1989 and the Federal Bureau of Investigation (FBI) may be involved in an investigation of this allegation.

Roy F. Weston, Inc. **MAJOR PROGRAMS DIVISION**  It was felt the Westgate Trailer Park may possibly have been contaminated by fugitive emissions of lead dust from baghouses in areas where solid lead is melted down in Exide's manufacturing process. This lead dust is thought to have been released into the atmosphere where the particles eventually settled into the trailer park and in surrounding areas. The Technical Assistance Team (TAT) was tasked by the Region IV On-Scene Coordinator (OSC) Warren Dixon, to perform a site investigation for this area which included site documentation, soil sampling, and appropriate diagrams.

#### **SUMMARY**

On 28 June 1994, TAT members Roat, Hill, and Ryland mobilized to the Exide Battery site in Greenville County, South Carolina to meet OSC Warren Dixon and the Department of Health and Environmental Control (DHEC) Mike Klender and Carol Minsk. The purpose of this investigation was to document site conditions and obtain samples at the Westgate Mobile Home Park which is a residential area that is in close proximity to commercial areas. Upon arrival onsite, the TAT met with OSC Dixon and DHEC's as Klender and Minsk to survey the area and decide where the samples would be taken. After a perimeter reconnaissance, the OSC, and DHEC representatives went with the TAT to meet with Bobby Byars, a resident who had called and was concerned about the property at 103 Bent Creek Road. This property and three other yards on Bent Creek Road west of the Exide facility were sampled by a contractor representing Exide Battery in 1986 and Mr. Byars had requested that his yard be resampled at this time.

A total of fifty-five samples were taken from the Westgate Trailer Park and at the Bent Creek Road residence. The OSC tasked the TAT to take grab samples; the areas sampled consisted of two grab samples each, one taken at 0-3 inches and one taken at 9-12 inches. Upon successful completion of sampling and all other required tasks, all TAT personnel demobilized from the site and returned to the TAT office the following day.

#### CONCLUSION

The Westgate Mobile Trailer Park adjacent to the Exide Battery facility was assessed and samples were obtained from the areas of concern. These soil samples were submitted to ETC, Gulf South Laboratory, a TAT contracted laboratory, for total lead analysis. According to the analytical results received, six areas were above the level of 500 parts per million (ppm) as seen in the table below:

WG-20	WG-46	WG-47	WG-48	WG-49	WG-50
605 ppm	1670 ppm	649 ppm	2110 ppm	551 ppm	1190 ppm

Figure 1A graphically depicts the above sample locations.

Any EPA future action on the Westgate Trailer Park adjacent to Exide Battery will be pending upon the OSC's review of the report and analytical data.

## **ATTACHMENTS**

Figures 1-3 Maps & Sketches
Attachment A - Photographs
B - Log Notes
C - Table of Witnesses
D - Site Safety Plan
E - Analytical Data

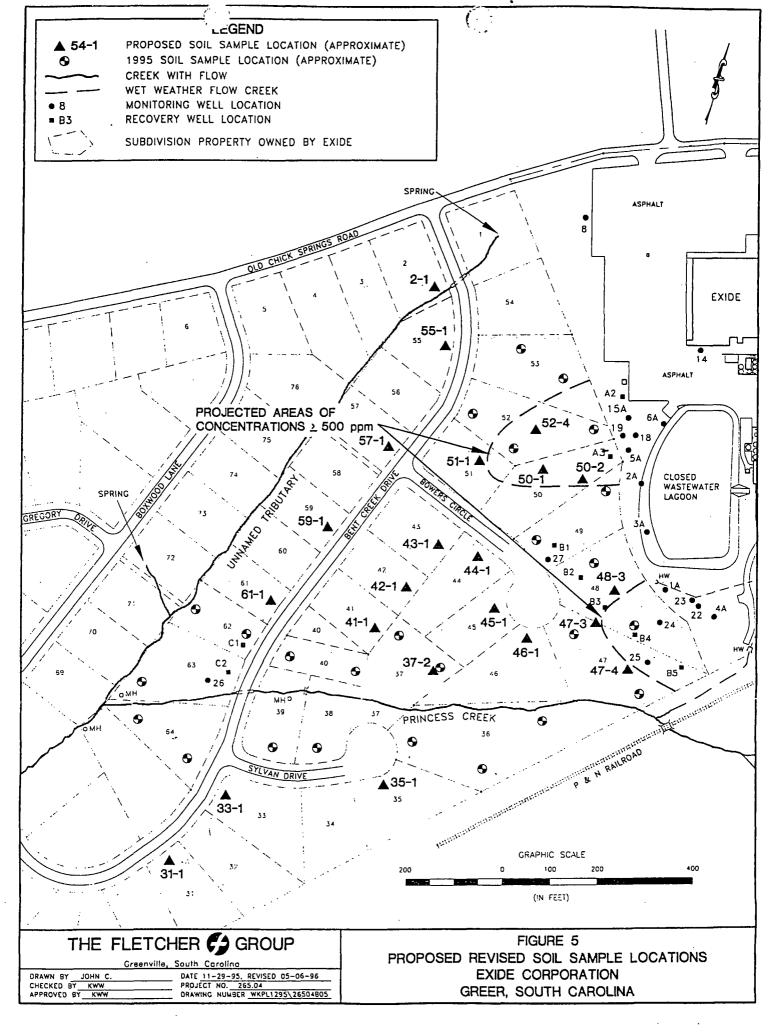
## SOIL LEAD CONCENTRATIONS KINGS ACRE SUBDIVISION

Page: 1A of 1A Date: 12/09/96

			RESULT	
SITE	DATE	DEPTH (m)	TYPE	Lead (mg/kg)
B42-02	11/07/96	0.000	Set 1	167
B42-03	11/07/96	0.000	Set 1	99:1
B43-02	11/07/96	0.000	Set 1	· 221
B44-02	11/07/96	0.000	Set 1	::1480
B47-05	11/07/96	0.000	Set 1	440
B47-06	11/07/96	0.000	Set 1	978
B48-04	11/07/96	0.000	Set 1	734
B48-05	11/07/96	0.000	Set 1	202
B48-06	11/07/96	0.000	Set 1	1960
B48-07	11/07/96	0.000	Set 1	497
B48-08	11/07/96	0.000	Set 1	871
B50-03	11/07/96	0.000	Set 1	882
B50-04	11/07/96	0.000	Set 1	1090
B50-05	11/07/96	0,000	Set 1	1440
B50-06	11/07/96	0.000	Set 1	947
B50-07	11/07/96	0.000	Set 1	180
B50-08	11/07/96	0.000	Set 1	2450
B51-02	11/07/96	0:000	Set 1	700
B51-03	11/07/96	0.000	Set 1	255
B51-04	11/07/96	0.000	Set 1	139
B52-05	11/07/96	0.000	Set 1	1360
B52-06	11/07/96	0.000	Set 1	1390
B52-07	11/07/96	0.000	Set 1	1040
B52-08	11/07/96	0.000	Set 1	923
B52-09	11/07/96	0.000	Set 1	210

Values represent total concentrations unless noted < = Not detected at indicated reporting limit --- = Not analyzed

For RCL 7421TL



## SUMMARY OF NOV. 1996 SOIL LEAD CONCENTRATIONS WEST GATE TRAILER PARK

Page: 1A of 2A Date: 01/08/97

(DEPTHS 0-3" AND 9-12")

			RESULT	
SITE	DATE	DEPTH (m)	TYPE	Lead
				(mg/kg)
WG-01	11/06/96	0.000	Set 1	494
WG-02	11/06/96	0.000	Set 1	373
WG-03	11/06/96	0.000	Set 1	434
WG-04	11/06/96	0.000	Set 1	280
WG-05	11/06/96	0.000	Set 1	513
WG-06	11/06/96	0.000	Set 1	638
WG-07	11/06/96	0.000	Set 1	1420
WG-08	11/06/96	0.000	Set 1	510
WG-09	11/06/96	0.000	Set 1	1030 .
WG-10	11/06/96	0.000	Set 1	572
WG-11	11/06/96	0.000	Set 1	837
WG-12	11/06/96	0.000	Set 1	764
WG-13	11/06/96	0.000	Set 1	441
WG-14	11/06/96	0.000	Set 1	1610
WG-15	11/06/96	0.000	Set 1	1460
WG-16	11/06/96	0.000	Set 1	86.7
WG-17	11/06/96	0.000	Set 1	45.8
WG-18	11/06/96	0.000	Set 1	159
WG-19	11/06/96	0.000	Set 1	52.7
WG-20	11/06/96	0.000	Set 1	46.6
WG-21	11/06/96	0.000	Set 1	116
WG-22	11/06/96	0.000	Set 1	439
WG-23	11/06/96	0.000	Set 1	376
WG-24	11/06/96	0.000	Set 1	243
WG-25	11/06/96	0.000	Set 1	589
WG-26	11/06/96	0.000	Set 1	962
WG-27	11/06/96	0.000	Set 1	397
WG-28	11/06/96	0.000	Set 1	578
WG-29	11/06/96	0.000	Set 1	482
WG-30	11/06/96	0.000	Set 1	370
WG-31	11/06/96	0.000	Set 1	199
WG-32	11/06/96	0.000	Set 1	441
WG-33	11/06/96	0.000	Set 1	302
WG-34	11/06/96	0.000	Set 1	146

Values represent total concentrations unless noted < = Not detected at indicated reporting limit --- = Not analyzed

For RCL 7421TL

#### TABLE 1.

## SUMMARY OF NOV. 1996 SOIL LEAD CONCENTRATIONS WEST GATE TRAILER PARK

Page: 2A of 2A Date: 01/08/97

		(	DEPTHS 0-3"	AND 9-12")
SITE	DATE	DEPTH:(m)	RESULT TYPE	Lead (mg/kg)
WG-35	11/06/96	0.000	Set 1	41.3
WG-36	11/06/96	0.000	Set 1	384
WG-37	11/06/96	0.000	Set 1	642
WG-38	11/06/96	0.000	Set 1	480
WG-39 WG-40	11/06/96 11/06/96	0.000 0.000	Set 1 Set 1	284 1:1:5
WG-41	11/06/96	0.000	Set 1	31.2
WG-42	11/06/96	0.000	Set 1	392
WG-43	11/06/96	0.000	Set 1	
WG-43	11/06/96	0.229	Set 1	25.7 (25.7)
				20. 20. 20. 20. 20. 20. 20. 20. 20. 20.
			845.EE	
	en mini og 1944 i 19 Seksek			
on Christian in 18 Alterración a Baccada		and the	est in the second	

Values represent total concentrations unless noted <= Not detected at indicated reporting limit ---= Not analyzed

For RCL 7421TL

## UPDATED PRELIMINARY ASSESSMENT HAZARD RANKING SYSTEM SCORING SUMMARY

FOR

GENERAL BATTERY CORPORATION EPA SITE NUMBER: SCD 042 633 859

EPA REGION: IV

SCORE STATUS: IN PREPARATION

SCORED BY: Craig Dukes

DATE OF THIS REPORT: April 6, 1988
DATE OF LAST MODIFICATION: November 14, 1980

GROUND WATER ROUTE SCORE: 59.18
SURFACE WATER ROUTE SCORE: Not Scored
AIR ROUTE SCORE: Not Scored

MIGRATION SCORE : 34.21

SITE: General Battery Corporation

## HRS GROUND WATER ROUTE SCORE

<u>C</u>	ATEGORY/FACTOR		RAW DATA	ASN. VALUE	SCORE
1.		and chromigh as 820		45 found underlying ted in a closure p	
2.	Route Characteri	<u>stics</u> - Not	: Scored due t	o Observed Release	
3.	<u>Containment</u> Not Comments:	scored due	to Observed R	elease	
4.	<u>Waste Characteri</u>	stics			
	Toxicity/Persist Comments: Lead-			_18_	18
	Waste Quantity:	Cubic Yds Drums Gallons Tons	9481*		
*Bas	sed on lagoon 8' d	eep with so Total			8_
	TOTAL WASTE CHAR	ACTERISTIC	S SCORE:		_26_
5.	<u>Targets</u>				
	Ground Water Use Comments: Sole lines.	: (three m source fo	ile radius) or persons no	$\frac{3}{2}$ (x3) of connected to p	
	Distance to Near	est Well	2000 feet.	to the southwest	
	And		Matrix Va		20
	Total Population Number of Hous Number of Pers Number of Conn Number of Irri	es ons ections	204	ons (three mile rad	lius)
	TOTAL TARGETS SO	nre:			29

SITE: General Battery Corporation

CATEGORY/FACTOR

RAW DATA

ASN. VALUE

SCORE

6. If line 1 is 45, multiply 1 x 4 x 5. If line 1 is 0, multiply 2 x 3 x 4 x 5.

7. Divide line 6 by 57,330 and multiply by 100 = Sgw.

GROUND WATER ROUTE SCORE (Sgw) = 59.18

HRS SURFACE WATER ROUTE SCORE - Not Scored

SURFACE WATER ROUTE SCORE (Ssw) = Not Scored due to high groundwater score

HRS AIR ROUTE SCORE - Not Scored

AIR ROUTE SCORE (Sa) = Not Scored due to high groundwater score

# UPDATED PRELIMINARY ASSESSMENT HAZARDOUS RANKING SYSTEM SCORING CALCULATIONS FOR

SITE: GENERAL BATTERY CORPORATION

## Ground Water Route Score

Observed Release Route Characteristics Containment Waste Characteristics Targets	45 	
	$= 33,930/57,330 \times 100 = \underline{59.18}$	Sgw
Surface Water Route Sco	ore - Not Scored	
Observed Release Route Characteristics Containment Waste Characteristics Targets		•
:	= /64,350 x 100 =	Ssw
Air Route Score - Not S	Scored	
Observed Release Waste Characteristics Targets	· · · · · · · · · · · · · · · · · · ·	
	= /35,100 x 100 =	Sa

## Summary of Migration Score Calculations

	<u></u>	<u>s²</u>
Groundwater Route Score (Sgw)	59.18	3502.3
Surface Water Route Score (S <sub>SW</sub> )	N/A	N/A_
Air Route Score (Sa)	N/A_	N/A_
$S^2_{gw} + S^2_{sw} + S^2_a$		3502.3
$S^2_{gw} + S^2_{sw} + S^2_a$	59.18	
$s^2_{gw} + s^2_{sw} + s^2_{a}$ /1.73 = $s_m$	34.21	

MAR 15 1983

^ F04	OTENTIAL MATABRAME WASTE	<u> </u>	REGION	SITE NUMBER (to be a
	POTENTIAL HAZARDOUS WASTE FICATION AND PRELIMINARY AS			a (Suec by Hd)
NOTE: This form is completed for	each potential hazardous waste site to evallable records and may be updated o	help set priorities for		
GENERAL INSTRUCTIONS: Compl. Assessment). File this form in the Agency; Site Tracking System; Haz	ete Sections I and III through X as co Regional Hazardous Waste Log File as ardous Waste Enforcement Task Force	npletely as possible b id submit a copy to: ( (EN-335); 401 M St.,	efore Sect J.S. Enviro SW; Washi	ion II (Proliminary onested Protection of 20460.
SCD042633859 GR	EENVILLE	IN		
" GENERAL BATTERY C	ORP	(or other identifier)		
- OLD CHICK SPRINGS	RD	E. ZIP CODE	F. COUN	ITY NAME
GEORGETUWN	SC 29440	1	<u> </u>	
LEED, JEFFREY, PRO	OJ LEAD* 2153780852		2. TELE	PHONE NUMBER
1. TIPE OF ORNERS	3. COUNTY 4 MUNICIPAL	S PRIVATE 6	UNKNOWN	
. SITE DESCRIPTION Aga	x - Now chared or	d.	·	
13mC Nomeon	سخت تورحه			K. DATE IDENTIFIE
)3-C NOTIFICATION" ` RL WILLIAMS	DATE: 810609			(mos, day, & yrs)
ONE: 803-758-5544			<del></del>	l
			2. TELE	PHONE NUMBER
	(compi	eto this section last)	2. TELE	PHONE NUMBER
□1. HIGH □2. MEDIUM		eto this section lust) ]5 UNKNOWN	2. TELE	PHONE NUMBER
			2. TELE	PHONE NUMBER
	1		CTION NEE	:DED
RECOMMENDATION		S UNKNOWN	CTION NEE	:DED
RECOMMENDATION  1. NO ACTION NEEDED (no hexard	(☑3. LOW	S UNKNOWN  MMEDIATE SITE INSPETENTATIVELY SCHED	CTION NEE	EDED
RECOMMENDATION  1. NO ACTION NEEDED (no hexard  3. SITE INSPECTION NEEDED  6. YENTATIVELY SCHEDULED	(☑3. LOW	S UNKHOWN  MMEDIATE SITE INSPE	CTION NEE	EDED
B. SITE INSPECTION NEEDED  a. TENTATIVELY SCHEDULED  b. WILL BE PERFORMED BY:	(2)	MEDIATE SITE INSPECTION NEED	CTION NEE	EDED :
D. RECOMMENDATION  1. NO ACTION NEEDED (no hexard  3. SITE INSPECTION NEEDED  5. YENTATIVELY SCHEDULED  D. WILL BE PERFORMED BY:  1. PREPARER INFORMATION  1. NAME	Ø3 LOW	S UNKHOWN  MMEDIATE SITE INSPECTOR SCHED  WILL BE PERFORMED  ITE INSPECTION NEED	CTION NEE ULED FOR BY:	IOFITY)
B. RECOMMENDATION  1. NO ACTION NEEDED (no hearer  2. SITE INSPECTION NEEDED  3. TENTATIVELY SCHEDULED  b. WILL BE PERFORMED BY:	Ø3 LOW	S UNKHOWN  MMEDIATE SITE INSPECTION NEED  ITE INSPECTION NEED  (ELEPHONE NUMBER	CTION NEE ULED FOR BY:	EDED :
A. RECOMMENDATION  1. NO ACTION NEEDED (no hexard  2. SITE INSPECTION NEEDED  3. TENTATIVALY SCHEDULED  4. VENTATIVALY SCHEDULED  5. WILL BE PERFORMED BY:  1. PREPARER INFORMATION  1. NAME  1. ALLI 1. STATUS  21. JACTIVE (Those industrial or participal sites which are being used	FOR:    111. SITE INFORMATION   2. INACTIVE (Those stice which no longer receive (Those street those stice)   3. 0.	IS UNKNOWN  MMEDIATE SITE INSPECTION SCHOOL  WILL BE PERFORMED  ITE INSPECTION NEED  (ELEPHONE NUMBER  (A) - 758-5(A)  ON  THER (specify):  Ites that include such in-	CTION NEEDULED FOR	IOED  Iority)  3. DATE (mo., day, & 9/14/82
D. RECOMMENDATION  1. NO ACTION NEEDED (no hearer  2. SITE INSPECTION NEEDED  2. YENTATIVELY SCHEDULED  3. WILL BE PERFORMED BY:  2. PREPARER INFORMATION  1. NAME  1. ALLILIA ) WARRINGTON  1. NAME  2. SITE STATUS  21. JACTIVE (Those industrial or sumicipal sites which are being used for waste treatment; storage, or disposal for a continuing beals, even if intro-	FOR:    111. SITE INFORMATION   2. INACTIVE (Those stice which no longer receive (Those street those stice)   3. 0.	S UNKNOWN  MMEDIATE SITE INSPECTION SCHED  WILL BE PEPFORMED  ITE INSPECTION NEED  (ELEPHONE NUMBER  ON  ON	CTION NEEDULED FOR	IOFICY)  S. DATE (mo., day, & 9/14/82
B. RECOMMENDATION  1. NO ACTION NEEDED (no hexard  2. SITE INSPECTION NEEDED  3. VENTATIVELY SCHEDULED  b. WILL BE PERFORMED BY:  C. PREPARER INFORMATION  1. NAME  1. NAME  2. SITE STATUS  3. SITE STATUS  4. SITE STATUS  5. SITE STATUS  6. SITE STATUS  6	III. SITE INFORMAT  2. INACTIVE (Those of the state of th	IS UNKNOWN  MMEDIATE SITE INSPECTION SCHOOL  WILL BE PERFORMED  ITE INSPECTION NEED  (ELEPHONE NUMBER  (A) - 758-5(A)  ON  THER (specify):  Ites that include such interior continuing use of the	CTION NEEDULED FOR	IOFICY)  S. DATE (mo., day, & 9/14/82
B. RECOMMENDATION  1. NO ACTION NEEDED (no hexard  3. SITE INSPECTION NEEDED  5. YENTATIVELY SCHEDULED  5. WILL BE PERFORMED BY:  C. PREPARER INFORMATION  1. NAME	FOR:    111. SITE INFORMATION   2. INACTIVE (Those stice which no longer receive (Those street those stice)   3. 0.	IS UNKNOWN  MMEDIATE SITE INSPECTION SCHOOL  WILL BE PERFORMED  ITE INSPECTION NEED  (ELEPHONE NUMBER  (A) - 758-5(A)  ON  THER (specify):  Ites that include such interior continuing use of the	CTION NEEDULED FOR	IOFICY)  S. DA'SE (mo., day, & 9/14/82
D. RECOMMENDATION  1. NO ACTION NEEDED (no hearer  2. SITE INSPECTION NEEDED  2. YENTATIVELY SCHEDULED  3. WILL BE PERFORMED BY:  C. PREPARER INFORMATION  1. NAME  1. ALLILIA ) WANGE LIGHT  1. ACTIVE (Those industrial or surricipal sites which are being used for waste treatment; storage, or disposal on a continuing basis, even if intro- quently.)  1. 15 GENERATOR ON SITE!	III. SITE INFORMAT  2. INACTIVE (Those of the state of th	IS UNKNOWN  MMEDIATE SITE INSPECTED  WILL BE PERFORMED  ITE INSPECTION NEED  (ELEPHONE NUMBER  (A) - 758-5(A)  ON  THER (specify):  Ites that include such interior continuing use of the continuing u	CTION NEE ULED FOR BY: DED (low pr.	iority)  3. DATE (mo., day, & 9/14/82  "midnight dumping" waste disposed has occur

YES (opecity):

Co	ntinued From Front	!						4				
							OF SITE ACTIVIT					
	dicate the major sit	e activity(i	ea) and det	eile	s relating to each a	cti	vity by marking 'X' i	n the app	rop	riate boxes	В.	
'x'	A. TRANSPOR	TER ·	X	<b>8</b> .	STORER	<u>×</u> :	C. TREATE	₹	Ě		o. p	ISPOSER
Н	1. RAIL		1 PILE				1. FILTRATION		L	I. LANDFI		
$\vdash$	2. SHIP		<del></del>		E IMPOUNDMENT	_	2. INCINERATION		-	2. LANDFA		
-	3. BARGE		3. DRUM			4	3. VOLUME REDUCT		H	OPEN D		
Н	4. TRUCK		<del></del>		BOVE GROUND	4	4. RECYCLING/RECO		ļ.,			MPOUNDMENT
Н	6. PIPELINE 6. OTHER (apecify):		6. OTHE		LOW GROUND	-	S. CHEM./PHYS. TRE		<del> </del>	S. MIDNIGH		
-	e. OTHER (apecity).		LIS. OTHE		puerry).	_	6. BIOLOGICAL TREAT.		╁	S. INCINER		NO INJECTION
l					ł	-	S. BOLVENT RECOVE		1,	. OTHER		<del></del>
							9. OTHER (apocily):	<u>''``</u>		W. W. c		<u> </u>
E.	SPECIFY DETAILS	OF SITE AC	TIVITIES AS	N	EEOED -		•		L			<del></del> .
ļ	Du	u griu	<del>фо</del> -фи		حمميها تبييما	00	سه للمحميدمين	whou	ه د	d Jead	U.	- contouring
١,	wastemate	പ പ്പ്ഹം	m the	(	wateritreo	₽.	runt aperatic	ي بديم	مب	ie di	عد.	targid into
,	the lagoon	x. 4m	restate	من	ר שונייייייי	-	realiares aug murt apenetic heur beer	take	'n	MOLL	<b>'</b> ,	
				_	V. WASTE RELAT	ΕC	INFORMATION					
<b>A</b> .	WASTE TYPE	_										
`-		12 LIQUID	<u>[</u> ]3	. sc	OLID [] [4. s	. L U	JDGE []5. G	AS				
ــ ا	WASTE CHARACTE								•	• •		
=		JZ. CORROS			SNITABLE [_]4 F		DIOACTIVE5 H	IGHLY V	OLA	TILE		
1.3	Z] 6 10 XIC	J. HEYCII	νε <u>Γ΄</u> ]ο	10	י בןן							
_	10. OTHER (apacif											
C.	WASTE CATEGORIE . Are records of wast	S es evallable	? Specify ite	ms	such as manifests, ir	7 <b></b>	ntories, etc. below.					
ŀ												
	No.	unt (specify	unit of me		re) of mante by ont		ory; mark 'X' to indic	ata mhia	<u> </u>			
-	. SLUDGE	unt(specify		l an	c. SOLVENTS	T	d. CHEMICALS	,	5OL		T	f. OTHER
AM	OUNT .	AMOUNT	, <u>.</u>	4.	40UNT	┢	MOUNT	AMOUN	_		AM	OUNT
		1									<u>.                                    </u>	?
UN	IT OF MEASURE	UNIT OF M	EASURE	UA	NIT OF MEASURE	1	NIT OF MEASURE	וס דיאט	ME	ASURE	אט	TOF MEASURE
×	(1) PAINT, PIGMENTS	X' III OIL Y	r Es	'×'	(1) HALOGENATED	1	(' (1) A CIDS	'X FL	YAS	н	×	III LABORATORY
-	121METALS SLUDGES	(2) O TH	ER(apacily):		(2) NON-HALOGNT()	+	(2) PICKLING LIQUORS	(2) A1				121HOSPITAL
					<del> </del>	╁	2.400	<del></del>			Н	
	(SIPOTW.				J(3) OTHER(apecify)	L	131 CAUSTICS	7.31 Mi		TAILINGS		(3) RADIOACTIVE
	(4) ALUMINUM SLUDGE					L	(A) PESTICIDES	(4) F (	HR C	DUS . WASTES		(4) MUNICIPAL
$\Box$	(5) OTHER(*pecify):					Γ	(8) DY ES/IN KS	151 80	)N·F	ERROUS . WASTES		(8) OTHER (*P*cily): Waste water
						Γ	(6) CYANIDE	(6) 01	HEF	(specify):		Washe water
			•			r	(7) PHENOLS					
						H	(8) HALOGENS				ł	٠.
			·			$\vdash$	-			!		,
						-	(9) PC 8					
						L	HOIME TALS					
	İ					H	JOITOTHER (*pecify)			•		

EPA Form T2070-2 (10-79)

is .

3. LIST SUBSTANCES OF GREATES	V. W.	ASTE RELAT	ED INFORMATION	N (continued)	order of hazard).	
a sign addarances or onening		THICK HAT				
•						
4. ADDITIONAL COMMENTS OR HAR	PATIVE DE	SCRIPTION O	F SITUATION KNO	WN OR REPORTED	TO EXIST AT THE 5	ITE.
Juies of monitor	سمح س	سلله لهر	سف وموسر م	restalled.	J 10 EA/31 AT THE S	1116.
July has been	مسمعك	لا سيمطه	C.aum	McErain	approual	•
			ARD DESCRIPTI			
A. TYPE OF HAZARD	B. POTEN- TIAL HAZARD (Merk 'X')	C. ALLEGED INCIDENT (mark 'X')	D. DATE OF INCIDENT (GRO., day, yr.)		REMARKS	
NO HÁZARD		<b>经</b> 。	AND PARTY.		A CONTRACTOR	
HUMAN HEALTH						
NON-WORKER						
. WORKER INJURY						
CONTAMINATION OF WATER SUPPLY						
CONTAMINATION OF FOOD CHAIN						
CONTAMINATION OF GROUND WATER		<u> </u>				···
CONTAMINATION OF SURFACE WATER						
DAMAGE TO FLORA/FAUNA					<b>3</b> 2.	
IO. FISH KILL					·	
1. CONTAMINATION OF AIR	· marin a common and a common a					
12. NOTICEABLE ODORS				<u>.</u>		
IS. CONTAMINATION OF SOIL	X					
14. PROPERTY DAMAGE						
IS. FIRE OR EXPLOSION						
6. SPILLS/LEAKING CONTAINERS/ RUNOFF/STANDING LIQUIDS						
17. BEWER, STORM DRAIN PROBLEMS						
IS. EROSION PROBLEMS						
IS. INADEQUATE SECURITY				·		
O. INCOMPATIBLE WASTES						
1. MIDNIGHT DUMPING						
2. OTHER (epocly):						
ļ						

Continued From Front			
	<u> </u>	VII. PERMIT INFO	DRMATION
A. INDICATE ALL APPLICABLE PE			1
	r 3		·
<u> </u>		3. STATE PERMIT	
<b>-</b>	CAL PERMIT		
7 RCRA STORER B. RC	RA TREATER []	9 RCRA DISPOSE	R
B. IN COMPLIANCE?			
1 7 = +-:	[]	2 HNKNOWN	and the second s
FET 1. 150	The English	, on the same of t	
4. WITH RESPECT TO (Hat regu	iletion name & numbe	o:	
	<del></del>	PAST REGULATO	DRY ACTIONS
A. NONE B. Y	ES (summerize below		T ACTION
			ng_negotiated
Canada Como	.cm 29	•	
Ī	•		
<u> L</u>			
	IX. INSPEC	CTION ACTIVITY	(past or on-going)
A NONE B. YE	S (complete itema 1,2	2,3, & 4 below)	
	2 DATE OF	3 PERFORMED	
1. TYPE OF ACTIVITY	PAST ACTION (mo., day, & yr.)	BY: (EPA/State)	4. DESCRIPTION
Monitoring	<u> </u>	State	To take samples tobserve
1			· ·
Monitoring	<b>_</b>	State	conditions of site
<b> </b> ~			
	V DEM	TOTAL ACTIVITY	* * * * * * * * -
	A, REM	EDIAL ACTIVITI	( (past or on-going)
A. NONE	ES (complete items 1,	2, 3, & 4 below)	
	2. DATE OF	S. PERFORMED	
1. TYPE OF ACTIVITY	(mo., day, & yr.)	(EPA/State)	4. DESCRIPTION
Consentorder	<u> </u>	state	being reguliated
			1
4	<b>1</b>	j '	
	1	<u></u>	<u> </u>
NOTE: Based on the informati	on in Sections II	I through X, fill	out the Preliminary Assessment (Section II)
information on the first			, , ,

いじい	SE' SUMBLE (10 be som	
	with a distriction	

POTENTIAL HAZARDOUS WASTE SITE IDENTIFICATION AND PRELIMINALY ASSESSMENT 50000010003 This form is completed for each potential hazardous waste site to help set priorities for site inspection. The information submitted on this form is based on available records and may be updated on subsequent forms as a result of additional inquiries and on-site inspections. GENERAL INSTRUCTIONS: Complete Sections 1 and III through X as completely as possible before Section 11 (Preliminary Assessment). File this form in the Regional Hazardous Waste Log File and submit a copy to: U.S. Environmental Protection Agency; Site Tracking System; Hazardous Waste Enforcement Task Force (EN-335); 401 M St., SW; Washington, DC 20450. I. SITE IDENTIFICATION A. SITE NAME B. STREET (or other identifier) <u>e.o.</u> F. COUNTY NAME S.C 7186L G. OWNER/OPERATOR (If known) 2. TELEPHONE NUMBER some as 060VE H. TYPE OF OWNERSHIP 1. FEDERAL 2. STATE 3. COUNTY 4. MUNICIPAL 5. PRIVATE 6. UNKNOWN I. SITE DESCRIPTION basin on flack of a Compliance Group 303 758-5681 11. PRELIMINARY ASSESSMENT (complete this section last) A. APPARENT SERIOUSNESS OF PROBLEM XII. HIGH 2. MEDIUM 3. LOW 4. NONE 5. UNKNOWN B. RECOMMENDATION 2. IMMEDIATE SITE INSPECTION NEEDED 1. NO ACTION NEEDED (no hezerd) 3. SITE INSPECTION NEEDED Week of Nov. 10. b. WILL BE PERFORMED BY: WILL BE PERFORMED 6 4. SITE INSPECTION NEEDED (low priority) C. PREPARER INFORMATION 2. TELEPHONE NUMBER III. SITE INFORMATION A. SITE STATUS (Those sites that include such incidents like "midnight dumping" where no regular or continuing use of the site for waste disposal how occurred.) 2. INACTIVE (Those 1. ACTIVE (Those Industrial or for waste treatment, storage, or disposal on a continuing baste, even if infrewastes.) quently.) B. IS GENERATOR ON SITE! 2. YES (specify generator's four-digit SIC Code): 2899 ☐ 1. NO D. IF APPARENT SERIOUSNESS OF SITE IS HIGH, SPECIFY COORDINATES C. AREA OF SITE (in ecree) 2. LONGITUDE (deg.-min.-sec.) 1. LATITUDE (degi-mini-eeci)

<u> </u>					_			OF SITE ACTIVITY	_					
Inc	licate the major site	e ac	ctivity(ies) and	d detail	İs				n ti	၈၀ ချဉ်စု	to appropriate boxes.			
·x·	A. TRANSPOR	TEF	R	В.	. s	STORER		C. TREATER	 R		×		 >. :	DISPOSER
	I. RAIL	_	1. P	PILE	_			I. FILTRATION	_			1. LANGFI		
	2. SHIP	_	2. 5	SURFAC	Ε	IMPOUNDMENT		2. INCINERATION	_			J. LANDFA		4
	3. BARGE		3.0	DRUMS	_		$\Box$	3. VOLUME REDUCTI	ON			a. opek a.	JM	P
	4. TRUCK	_	4. 7	FANK, A	Ð	OVE GROUND		4. RECYCLING/RECO	V E	RY	زآ	A. SURFAC	EI	MPOUNDMENT
	8. PIPELINE	_	8. T	TANK, B	E	LOW GROUND		8. CHEM./PHYS. TRE	A T	MENT		S. MIDNISH	7	DUMP'NG
	6. OTHER (epecify):		6. 0	OTHER (	(=;	pecify):		8. BIOLOGICAL TREA	A TM	ENT		S. INCINER	AT	TION
·						,		7. WASTE OIL REPRO	CE	SSING		7. UNDEF 3	ЯC	NOITOBLAI CAUC
						Ĭ		. SOLVENT RECOVE	RY			. OTHER (	ape	ecity):
	<del> </del>				-			9. OTHER (*pocily):			10	agoon	•	
E.	SPECIFY DETAILS	OF	SITE ACTIVITI	ES AS N	١E	EDED						1		
													•	
				÷										
	•													
_					-		_		-				_	
		_			-	V. WASTE RELAT	ΕD	INFORMATION	_				_	
۸.	WASTE TYPE	_			_			<u> </u>						
ב	] I. UNKNOWN	<b>]</b> 2.	LIQUID	3. s	50	DLID4. 5	\$LU	DGE5. G	AS					
	WASTE CHARACTER	•			_			<del> </del>			_			
_		[2.					RAD	DIOACTIVE5. HI	IGH	LY	)LA	TILE		
5	6. TOXIC	]7.	REACTIVE	8. II	IN!	ERT9. 1	FLA	MMABLE						
/				-										
	10. OTHER (specify	r):			_		_						-	- <del></del> - <u></u>
ι	WASTE CATEGORIES	5	The Same		-		_	· · · · · · · · · · · · · · · · · · ·	_		-		-	
1	. Are records of waste	** *	vailable? Speci	ify items	• •	such as manifests, in	nve	atories, etc. below.						
1										_				
2	. Estimate the amo	unt/	(specify unit o	of meas	ur	re)of waste by cate	ego	ry; mark 'X' to indica	ate	which	. w.o	eles are p	res	ent.
<del></del>	. SLUDGE		b. OIL			c. SOLVENTS	Ť	d. CHEMICALS	Τ		SOL		; 	(, OTHER
AM	OUNT	AM	IOUNT	1		OUNT	<b>†</b>	MOUNT	AN	4C'IN T			AN	OUNT
l _		1_		L			اِ	inknown	_				_	·
ŲN	IT OF MEASURE	UNI	IT OF MEASURE	E U	NI	IT OF MEASURE	Į.	UNIT OF MEASURE UNIT O		ITOF	ME	ASURE	VN	IIT OF MEASURE
<u> </u>		Ι.		L					_					
×	(1) PAINT, PIGMENTS	x·	(I) OILY WASTES	·x	=	ITIHALOGENATED SOLVENTS	×	(1) A CIDS	×	(I)FL	YAS	н	'X'	(1) PHARMACEUT.
$\prod$	(2) METALS \$LUDGES	尸	(2) OTHER(apec	clfy):	1	(2) NON-HALOGNTD SOLVENTS	·T	(2) PICKLING LIQUORS		(2) AS:	u E s	тоз		(Z) HOSPITAL
П	(\$) POTW			F	J	(3) OTHER(epocily):	X	(3) CAUSTICS		(SIMIL MIN		VG/ TAIL:NGS		(3) RADIOACTIVE
П	(4) A LUMINUM S LUDGE							(4) PESTICIDES	$\prod$	(4) FE SMI	RRC	OUS , WASTES		(4) MUNICIPAL
口	(5) OTHER(specify):							ISI DYES/INKS		(5) NO	N-F	ERROUS L. WASTES	_	(8; OTHER (specify):
					(6) CYANIDE	P	:61 O T	нця	(epecity):	ŀ				
						• •		(7) PHENOLS						
								(8) HALOGENS					į	
							1	(9) PC B					}	
							>	(10)METALS						
į.	1						Ľ	(11) OTHER (epecify)						
1	i i	1		Į			1 -	i i						

Continued From Front

Continued From Front			
		VII. PERMIT IN O	ORMATION ~
A. INDICATE ALL APPLICABLE PO	ERMITS HELD BY TH	E SITE.	
1. NPDES PERMIT 2. SI	PCC PLAN	] 3. STATE PERMIT(	(epecify):
		6. RCRA TRANSPO	
7. RCRA STORER 8. R	CRA TREATER	, 9. RCRA DISPOSEF	R
B. IN COMPLIANCE?			
1. YES 2. N	,0	] з. инкножн	
	-		
4. WITH RESPECT TO (list reg		·	
		PAST REGULATOR	RY ACTIONS
A. NONE B.	YES (aummarize below	· • • •	1. 1. 1
GBC is unal	er a Sta	te Hamir	nistrative Order GSC has
a closure plan	Dura is be	esently in	a placess of closing size.
<u> </u>		<del></del>	
	IX. INSPEC	CTION ACTIVITY	(past or on-going)
A. NONE B. Y	ES (complete items 1,2	2,3, & 4 below)	
1. TYPE OF ACTIVITY	2 DATE OF PAST ACTION (mo., day, & yr.)	3 PERFORMED BY: (EPA/State)	4. DESCRIPTION -
<u> </u>	-	<del></del>	l
	X. REM	EDIAL ACTIVITY	(past or on-going)
A. NONE B. Y	ES (complete items 1,	2.1. & 4 below)	
1. TYPE OF ACTIVITY	2. DATE OF PAST ACTION (mo., day, & yre)	B. PERFORMED BY: (EPA/Sinte)	4. DESCRIPTION
	<del>- </del>		
İ		1	1
	+	1	
		<u> </u>	<u> </u>
		•	out the Preliminary Assessment (Section II)
information on the firs	st page of this 1017	n.	

EPA Form T2070-2 (10-79)

PAGE 4 OF 4

$\Box$	MCI
70	

## POTENTIAL HAZARDOUS WASTE SITE TENTATIVE DISPOSITION

EGION SITE NUMBER

4 SCD04563385

File into form . The regional Nazardous Veste Log File and quemit a door for T.3. Environmental Protection Agency; Site Tracking System: Hazardous Vaste Entercement Task Force (EN-335); 401 M St., JW. Vashington, DC 10460.

[ SITE (DENTIFICATION

(, SITE IDE	ATIFICATION					
General Battery Corp	8. STREET					- ·
Greer Greer	D. STATE			E. ZIP CC	205	
II. TENTATIV	E DISPOSITION					
Indicate the recommended action(s) and agency(ies) that should b	ie involved by m	arking 'X':	n the app	propriete bo	xes.	
		!		ACTION	AGENCY	
RECOMMENDATION		MARKIX	SP4	STATE	LOCAL	PRIVATE
A. NO ACTION MEEDED NO HAZARD		í !		_		<u> </u>
.8. INVESTIGATIVE ACTION(S) NEEDED (II yes, complete Section III.)				X		
G. REMEDIAL ACTION NEEDED (II yes, complete Section IV.)						
ENFORCEMENT ACTION NEEDED (If yes, specify in Part E whether D. be primarily managed by the EPA or the State and what type of enforce is referenced.						

E. RATIONALE FOR DISPOSITION



This site is Contaminated with heavy metals and Hz504 waste. The hazardous materials have migrated offsite.

This site received a high priority
For an S.S.I.

Brio- Bolaway 9-13-88

POTENTIAL HAZARDOUS WASTE SITE  TENTATIVE DISPOSITION  REGION SITE NUMBER  50 000100						210003		
File this form in the regional Hazardous Waste Log File and submit a copy to: U.S. Environmental Protection Agency; Site Trackin System; Hazardous Waste Enforcement Task Force (EN-335); 401 M St., SW; Washington, DC 20460.								
System; Hazardous waste Entorc	ement lask Porc			nington, DC	20460.			
A. SITE NAME		I. SITE IDENTI	B. STREET					
General Batte	ry Cor	0	80.	Box	585	>		
C. CITY	2	4	D. STATE			E. ZIP C		
71997		····	5.C.			129	651	
Tadio and all and a second and a second		II. TENTATIVE		11 4201				
Indicate the recommended action(	s) and agency(le	3) that should be i	nvolved by mi	arking .Y. i	n the app		AGENCY	
RE	COMMENDATION			MARK'X	EPA	STATE	LOCAL	PRIVATE
A. NO ACTION NEEDED NO HAZ	ARD							
B. INVESTIGATIVE ACTIONIS) NEE	DED (If yee, comp	olete Section III.)						
C. REMEDIAL ACTION NEEDED (II	yes, complete Sec	tion IV•)						
ENFORCEMENT ACTION NEEDS D. be primarily managed by the EPA is anticipated.) E. RATIONALE FOR DISPASITION	D (If yes, specify or the State and wi	in Part E whether the hat type of enforceme	e case will ent action	X		X		
Documented av	reck 4	in gro	sund w	ater.	con	6 C M78	iation s	1 10m
F. INDICATE THE ESTIMATED DA'	TE OF FINAL DIS	POSITION	G. IF A CASE ESTIMATE (mo., day, d	O DATE ON			ESSARY, IND	
			(alor, pay, a	, , , , ,				
H. PREPARER INFORMATION	· · · · · · · · · · · · · · · · · · ·	· ·	·					
Ron W. Jou	ane r		2. TELEPHO	- 22 19	.34	13.0	NTE (MO., de	7, & yr.)
		NVESTIGATIVE A					7	
A. IDENTIFY ADDITIONAL INFORM		O ACHIEVE A PINA	AL DISPOSITIO	· · ·				
B. PROPOSED INVESTIGATIVE AC	FIVITY (Detailed I	nformation)						
1. METHOD FOR OBTAINING NEEDED ADDITIONAL INFO.	2. SCHEDULED DATE OF ACTION (mo, day, & yr)	3. TO BE PERFORMED BY (EPA, Con- tractor, State, etc.)	4. ESTIMATED MANHOURS			5. REMAR	ıKS	
a, TYPE OF SITE INSPECTION								
(2)								
(3) b. TYPE OF MONITORING	-			<u> </u>				
(1)		<del> </del>	<del>-</del> -	<u> </u>	. <u></u> .			
(2)	<u> </u>			-		<del></del> -		
(1)				<u> </u>		<del>-</del>		
15.				4				•

Continued From Front III. INVESTIGATIVE ACTIVITY NEEDED and PART B-PROPOSED INVESTIGATIVE ACTIVITY (Continued) (1) (2) e. OTHER (specify) (1) C. ELABORATE ON ANY OF THE INFORMATION PROVIDED IN PART B (on tron: & above) AS NEEDED TO IDENTIFY ADDITIONAL D. ESTIMATED MANHOURS BY ACTION AGENCY 2. TOTAL ESTIMATED MANHOURS FOR INVESTIGATIVE TOTAL ESTIMATED MANHOURS FOR INVESTIGATIVE ACTIVITIES 1. ACTION AGENCY 1. ACTION AGENCY ACTIVITIES a. EPA b. STATE d. OTHER (specify) C. EPA CONTRACTOR IV. REMEDIAL ACTIONS A. SHORT TERM/EMERGENCY STRATEGY (On Site & Oif-Site): List all emergency actions needed to bring site under immediate control, e.g., restrict access, provide alternate water supply, etc. See instructions for a list of Key Words for each of the actions to be used in the space below. 2. EST. START 3. EST. END ACTION AGENCY (EPA, State, Private Party) 6. SPECIFY 311 OR OTHER ACTION; INDICATE THE MAGNITUDE OF THE WORK REQUIRED 1. ACTION DATE DATE S. ESTIMATED COST (mo,day,&yr) (mo, day, & yr) \$ \$ S B. LONG TERM STRATEGY (On Site & Off-Site): List all long term solutions, e.g., excavation, removal, ground water monitoring wells, etc. See Instructions for a list of Key Words for each of the actions to be used in the spaces below. 2. EST. START ACTION AGENCY (EPA, State 6. SPECIFY 311 OR OTHER ACTION; INDICATE THE MAGNITUDE OF END DATE 1. ACTION 5. ESTIMATED COST (mo,day,&yr) (mo,day,&yr Private Party THE WORK REQUIRED \$ \$ \$ \$ C. ESTIMATED MANHOURS AND COST BY ACTION AGENCY 2. TOTAL EST. MANHOURS FOR REMEDIAL ACTIVITIES 2. TOTAL EST. MANHOURS FOR REMEDIAL ACTIVITIES 3. TOTAL EST. COST FOR REMEDIAL ACTIVITIES 3. TOTAL EST. COST 1. ACTION AGENCY ACTION REMEDIAL ACTIVITIES B. EPA b. STATE

d. OTHER (specify)

C. PRIVATE

9	PΛ
	ГН

## POTEN L HAZARDOUS WASTE SITE SITE INSPECTION REPORT

REGION	SITE NUMBER (to be seeigned by Hg)
W	50000010003

GENERAL INSTRICTIONS: Complete Sections I and III through XV of this form as completely as possible. Then use the information on this form to develop a Tentative Disposition (Section II). File this form in its entirety in the regional Hazardous Waste Log File. Be sure to include all appropriate Supplemental Reports in the file. Submit a copy of the forms to: U.S. Environmental Protection Agency; Site Tracking System; Hazardous Waste Enforcement Tack Force (EN-335); 401 M St., SW; Washington, DC 20460.

		, , , , , , , , , , , , , , , , , , , ,				
	I. SITE IDEN	TIFICATION				
General Bott	eru C.000.	B. STREET (or other Identifier) P.U. Box 588 O	al Chick Springs Rl			
Crreer	7	B. STATE E. ZIP CODE	CTECRVILLE			
G. SITE OPERATOR INFORMATION		<u> </u>				
1. NAME	•		2. TELEPHONE NUMBER			
General Botte	in colb.		803/879-2165			
P.O. Box 588	Green		S.C. 29651			
1. NAME	I different from operator of alte)		2. TELEPHONE NUMBER			
3. CITY			4. STATE 8. ZIP CODE			
old logoon now	in disuse and	broined, ourround	ed by small trees.			
J. TYPE OF OWNERSHIP 1	rE 🗍 3. COUNTY 📋	4. MUNICIPAL S. PRIVA	TE .			
	II. TENTATIVE DISPOSITIO	N (complete this section last)				
A. ESTIMATE DATE OF TENTATIVE DISPOSITION (mo., day, & yr.)	1					
11/14/80	🔀 1. ніся 🗀	2. MEDIUM 3. LOW	4. NONE			
C. PREPARER IN FORMATION	1	2. TELEPHONE NUMBER	3. DATE (mo., day, & yr.)			
Ron W Joyner	257-2234	11/14/80				
0.01. 11 0.02.11.01		NINFORMATION				
A. PRINCIPAL INSPECTOR INFORMA						
Ron W. Joyne	ez	Hydrogeologi	4. TELEPHONE PO. (Bree code & no.)			
3. ORGANIZATION	ontrolled Sites	Saction	4. TELEPHONE FO. (area code & no.)			
B. INSPECTION PARTICIPANTS	ONTHOUSEN 21162	30011010	257-2234			
1. N+ME	2. ORGA	NIZATION	3. TELEPHONE NO.			
Robert Hall	S.C. DHE		803/242-9850			
C. SITE REPRESENTATIVES INTERV	<del>,</del>					
1. NAME	2. TITLE & TELEPHONE NO	. 3.	ADDRESS			
Don Miller	Plant Engineer	er Greer S.	C. 883/879-2165			
		′				

	III. INSP	ECTION INFORMATION (continues)	
D. GENERATOR INFORMATIO	<del>,</del>		
I. NAME	2. TELEPHONE NO.	3. ADDRESS	4. WASTE TYPE GENERATED
General Bottery	803/879-2165	P.O. Box 588	H <sub>2</sub> 504
3	<u> </u>		Heavy metals
			4 3
E. TRANSPORTER/HAULER I	NFORMATION		
1. NAME	2. TELEPHONE NO.	3. ADDRESS	4.WASTE TYPE TRANSPORTED
·		,	
		·	
F. IF WASTE IS PROCESSED (	N SITE AND ALSO SHIPP	ED TO OTHER SITES, IDENTIFY OFF-SITE F	ACILITIES USED FOR DISPOSAL.
1. NAME	2. TELEPHONE NO.	3. ADDR	·
G. DATE OF INSPECTION (mo., dey, & yr.)	l	N 1. ACCESS GAINED BY: (credentials must be  1. PERMISSION	
J. WEATHER (describe)	<u> </u>		· · · · · · · · · · · · · · · · · · ·
clear and	cool	7. SAMPLING INFORMATION	
A. Mark 'X' for the types of etc. and estimate when th	samples taken and indic	ate where they have been sent e.g., region	al lab, other EPA lab, contractor,
1. SAMPLE TYPE	2. SAMPLE TAKEN (mark 'X')	3. SAMPLE SENT TO:	4.DATE RESULTS AVAILABLE
a. GROUNDWATER	V	imples token by the s	C. DHEC NOW
b. SURFACE WATER	X	" " " " " " " " " " " " " " " " " " " "	" " now
C. WASTE			
d. AIR			
e, RUNOFF			
f. SPILL			
g. 501L			
h. VEGETATION			
I. OTHER(apocily)		······································	
B. FIELD MEASUREMENTS TA	KEN (e.g., radioactivity,	xplosivity, PH, etc.)	
1. TYPE		OF MEASUREMENTS	3.RESULTS

Continued From Front

Continued From Page 2								
	IV. SAMPLI	NG INFORM	ATION (continued)	_				
C. PHOTOS								
1 · · · · · - · · · · · · · · · · · · ·	1 -		CUSTODY OF:		_			
A. GROUND S. AER	IIAL D	RON W	1. Joyner (grand)		Co. has acrials			
D. SITE MAPPED?								
YES. SPECIFY LOCATION								
	attery.							
E. COORDINATES  1. LATITUDE (degmin,-sec.)	9		2. LONGITUDE (degminsec.)					
		1	E. LUNG! I UDE (WEB! COU.)					
	<del></del>							
A. SITE STATUS	V. :	SITE INFOR	MATION					
l	I SOT A INACTIVE	·me	The Course Connections					
] 1. ACTIVE (Those Inductrial o municipal sites which are being use	ed sites which no long	Those per receive	(Those sites that include such incl	ide	nte like ''midnight dumping''			
for waste treatment, storage, or dis on a continuing basis, even it infre	sposal wastes.)		where no regular or continuing use has occurred.)	o!	the site for weste disposel			
quently.) from GBC still								
B. IS GENERATOR ON SITE?	Criters too	<del>4,001.</del>		—				
1. NO \$2. YES(specify generator's four-digit SIC Code): 2899								
<b>43</b> 12-14-1	actify Relievator a re e							
C. AREA OF SITE (Included)  D. ARE THERE BUILDINGS ON THE SITE?								
1. NO 2. YES(specify):								
roughly as hectare								
7.7		EDITATION	OF SITE ACTIVITY		<del></del>			
Indicate the major site activity(i				ori	ate boxes.			
·×·	X'	l×	r)	ΙX				
A. TRANSPORTER	B. STORER		C. TREATER	-	D. DISPOSER			
1.RAIL	1. PILE		1. FILTRATION		1. LANDFILL			
2. SHIP	2. SURFACE IMPOUND	DMENT	2. INCINERATION		2. LANDFARM			
3. BARGE	3. DRUMS		3. VOLUME REDUCTION	3. OPEN DUMP				
4. TRUCK	4. TANK, ABOVE GRO	DUND	4.RECYCLING/RECOVERY		4. SURFACE IMPOUNDMENT			
5. PIPELINE	5. TANK, BELOW GRO	DUND	5. CHEM./PHYS./TREATMENT		S. MIDNIGHT DUMPING			
6.OTHER(specify):	6. OTHER(specify):		6. BIOLOGICAL TREATMENT	6. INCINERATION				
<u> </u>		L	7. WASTE OIL REPROCESSING		7. UNDERGROUND INJECTION			
<u> </u>	,		8.5 OLVENT RECOVERY		B. OTHER (specify):			
f ·	1	L	9.OTHER(apacily):	again lost used				
,	1			~ 1972				
!	1			١,				
!	1							
- CURRY SUSPENIAL DEPORTS: VI	it size telle milita ann al	t the enternal	Uniced below Complemental Report	Ļ	be someted Indicate			
E. SUPPLEMENTAL REPORTS: 1f which Supplemental Reports you h			18 Il 8160 Delow, authorementary weber	t .	MUST DE COMPICION, Indicato			
C . STORAGE C :	2. INCINERATION [ 3	3. LANDFILL	4. SURFACE	1 5.	DEEP WELL			
1. STORAGE 2	INCINERATION	), CARUFICE	IMPOUNDMENT -	٠.	DEEF WELL			
CHEM/BIO/	7. LANDFARM 3	5. OPEN DUM	P 9. TRANSPORTER	1 10	D. RECYCLOR/RECLAIMER			
PHYS TREATMENT (								
A. WASTE TYPE	VII. WASTI	EKELAICE	DINFORMATION		<del> </del>			
	2. SOLID 3	3. SLUDGE	1. GAS					
X 1. Liquib	SOLID	3. 320002	4. 0.0					
B. WASTE CHARACTERISTICS								
			TA WALL VOLATILE					
		3. RADIOACT	<del></del>					
S. TOXIC	6. REACTIVE X 7	7. INERT	0. FLAMMABLE					
[ 9. OTHER(apacily): C. WASTE CATEGORIES				_				
1. Are records of wastes available?	Specify items such as ma	anifests, inver	ntozies, etc. below.					

Continued From From	1												
- Partwale the ones	· tr==nite unit of							ON (conti				· · · · · · · · · · · · · · · · · · ·	<u>.</u>
2. Estimate the amou	b, OIL	measu		LVENT		egor			dicat		es are p		
AMOUNT .	AMOUNT		E. SO		15	AN	d. CHI	MICALS		e, SOLIDS		1. OTH	EH
		1					nKne		}			-	
UNIT OF MEASURE	UNIT OF MEASURE	- 10	NIT OF	MEAS	URE			MEASURE	U	NIT OF MEAS	URE	UNIT OF ME	ASURE
PAINT,	X OILY	· x	HAI	LOGEN	STED	X	II. ACI	<u> </u>	×	(1) FLYASH		'X (1) LABOR	ATORY.
12) METALS SLUDGES	(2) OTHER(speci	ty):	(2) NOI	N-HAL	OGNTE	•	(2) FIQI	CLING		(2) ASBESTO	5	(2) HOSPIT	ΓΑL.
(3) POTW			_}13)СТІ	HER(1)	pecity):	L	131 C A U	STICS		(3) MILLING/	MINE	(3) RADIO	ACTIVE
(4) SLUDGE							:41 PES	TICIDES		14) FERROUS	SMELT. Es	(4) MUNIC	PAL
(5) OTHER(apecity):							(5) DYE	s/INKS		(5) NON-FER	ROUS ASTES		R(specify
	·						(6) C Y A	NIDE	-	(6) OTHER(4)	pacity):		
							(7) PHE	NOL5					
							181 HAL	OGENS				!	
							(9) PC E	3				' 	
						X	(10) ME	_ C,~ 4	Pb				
						F	-	HER(speci	ily)			·	
D. LIST SUBSTANCES (	DE GREATEST CON	CERNI	WHICH.	ARF O	N THE	SITE	(place	In descent	dine o	rder of bazard)		·	
		2	. FORM	ı	3	TO)	CICITY				<u> </u>	<del></del>	
1. SUBSTA	NCE	a. 50	mark 'X	C.VA-		ь.	('X' i	1 a.	4. C A S	NUMBER	5. A	MOUNT	6. UNIT
	····	LID	LIQ.	POR	нібн	ME	LOW	NONE		· <del></del>			ļ
Mercury					X								
Lead					X		<u></u>			· · · · · · · · · · · · · · · · · · ·			
H <sub>a</sub> SOH	··		X		X				_				
~ I		ļ	ļ	ļ			<u> </u>					<u>. — — — — — — — — — — — — — — — — — — —</u>	
		<u> </u>											
FIELD EVALUATION	HAZARD DESCR	IPTIO					box to		that t	he listed haz	ard exis	ts. Describe	e the
hazard in the space pr												<del> </del>	
A. HUMAN HEALT	TH HAZARDS												

√III, HAZARD DESCRIPTION (continued)
B. NON-WORKER INJURY/EXPOSURE
C. WORKER INJURY/EXPOSURE
D. CONTAMINATION OF WATER SUPPLY
E. CONTAMINATION OF FOOD CHAIN
-
F. CONTAMINATION OF GROUND WATER
GBC has 15 groundwater monitoring wells and somples every month.
of the supply of the
somples every violet.
G. CONTAMINATION OF SURFACE WATER
GBC & S.C. sample creek monthly.

Continued From Page 4

<u> </u>	VIII. HAZARD DESCRIPTION (continued)		
H. DAMAGE TO FLORA/FAUNA			
I. FISH KILL			
J. CONTAMINATION OF AIR			
K. NOTICEABLE ODORS		<u> </u>	
		•	
L. CONTAMINATION OF SOIL			
	•		
M. PROPERTY DAMAGE		<del></del>	
	•		
EPA Form T2070-3 (10-79)	PAGE 6 OF 10	Continue On Pag	e 7

Continued From Front

	VIII. HAZARD DESCRIPTI	DN (continued)	<u> </u>	
N. FIRE OR EXPLOSION				
·				
	•			
	•			
O. SPILLS/LEAKING CONTAINERS/RUN	IDFF/STANDING LIQUID		<del></del>	
	,			
·				
P. SEWER, STORM DRAIN PROBLEMS	<del></del>	<del></del>		<u> </u>
1-1 F. SEWER, STORM DRAIN PROBLEMS				
				•
				•
Q. EROSION PROBLEMS				
				•
·				
R. INADEQUATE SECURITY				
	•			•
·				
S. INCOMPATIBLE WASTES				····
·				
·				
	•			
		•		
·				

Continued From Page 6

	VIII. HAZARD DE	SCRIPTION (continued)		
T. MIDNIGHT DUMPING				
i				
f				
1		•		
			•	
[				
U. OTHER (specify):	· · · · · · · · · · · · · · · · · · ·		_ <del></del>	·
				•
			•	
·				
	IX. POPULATION DIRE	CTLY AFFECTED BY SI	TE	
	0.455554.445	C. APPROX. NO. OF PEO		E. DISTANCE
A.LOCATION OF POPULATION	B. APPROX. NO. OF PEOPLE AFFECTED	AFFECTED WITHIN	OF BUILDINGS AFFECTED	TO SITE (specify units)
				<del>                                     </del>
I.IN RESIDENTIAL AREAS		•		1
2. IN COMMERCIAL OR INDUSTRIAL AREAS				
" OR INDUSTRIAL AREAS				
IN PUBLICLY  9. TRAVELLED AREAS				
\ <del></del>		<del> </del>		
4. PUBLIC USE AREAS (parks, schools, etc.)				1
		D HYDROLOGICAL DAT		
A. DEPTH TO GROUNDWATER(specify	· 1		C. GROUNDWATER USE IN	VICINITY
5 to 6 meters D. POTENTIAL YIELD OF AQUIFER	toward	INKING WATER SUPPLY	F. DIRECTION TO DRINK	NG WATER SIIPPI
un Known	(apacity unit of ma		T. DIRECTION TO DRINK!	HO WAITER SOCIET
G. TYPE OF DRINKING WATER SUPPL	Y		<u> </u>	
	COMMUNITY (specify town): > 15 CONNECTIONS -	Greer SC.		
		<del></del>		
3. SURFACE WATER 4.	WELL			الاستان المساور المساور المساور المساور المساور المساور المساور المساور المساور المساور المساور المساور المساور
EPA Form T2070-3 (10-79)	PAG	E B OF 10	Conti	nue On Page 9

		X. WATER AND HYDROLOG	ICAL DATA (c	onti <b>nued)</b>		
H. LIST ALL DRI	NKING WATER WEL	S WITHIN A 1/4 MILE RADIUS OF S	SITE			
1. WELL	2. DEPTH (apacify unit)	3. l (proximity to p	LOCATION population/buildi	n <b>.(+</b> )	MUNITY (mark 'X')	COMMUN- ITY (mark 'X')
		NONE				
			····			
<u> </u>			<del> </del>			
}				<del></del>	<del> </del>	
I. RECEIVING WA	TER				<u> </u>	L
White Pla	ins Branch	2. SEWERS	3. STREAMS	/RIVERS		
Princes	s_Creck	4. LAKES/RESERVOIRS	B. OTHER(	pocify):		
6. SPECIFY USE	AND CLASSIFICAT	ON OF RECEIVING WATERS				
		XI. SOIL AND VEGI	TATION DATA	· · · · · · · · · · · · · · · · · · ·		
LOCATION OF SI						
A. KNOWN F	FAULT ZONE	B. KARST ZONE	C. 100 YE	AR FLOOD PLAIN	D. WETLAND	•
E. A REGUL	ATED FLOODWAY	F. CRITICAL HABITAT		ARGE ZONE OR SOLE SOURC	CE AQUIFER	
Mark 'X' to indic	rate the type(s) of	XII. TYPE OF GEOLOGICAL geological material observed and			parts.	
A. CVERBUR	·×1	B. BEDROCK (epecify below)	×	C. OTHER (spec		
X 1. SANDY C	Jay X a	neissic bedro	cK			
2. CLAY		)				
3. GRAVEL		33.		-		
h		XIII, SOIL PERI	MEABILITY			·
A. UNKNOWN	l TE (10 to .1 cm/sec.)	B. VERY HIGH (100,000 to		C. HIGH (1000 to 10 cm		·c.)
G. RECHARGE AF	REA		··			
H. DISCHARGE A		OMMENTS:				
] I. YES	2. NO 3. CO	DMMENTS.				
1. ESTIMATE % C		PECIFY DIRECTION OF SLOPE, CO	NDITION OF SL	OPE, ETC.		
5-10		oward SW	. 1			
The GR	c plant is	. I scated in the Falocal ground	Santee	drainage bosin	on the	
southwes.	t flank o	ickness of the	eprolite	that overlies	the a	neissie
bedrock .	was deter	ickness of the s minch to be about	d 15 me	ters (in well	D45-4f	').

Continued From Page 8

		XIV. PERMIT IN	FORMATION				
List all applicable permits he	eld by the site and			······································			
A. PERMIT TYPE			D. DATE	E. EXPIRATION	F. IN	COMPLI (mark 'X')	ANCE
(e.g., RCRA, State, NPDES, etc.)	B. ISSUING AGENCY	C. PERMIT NUMBER	ISSUED (mo.,day,&yr.)	DATE (mo.,day,&yr.)	1. YES	2. NO	3. UN-
		· · · · · · · · · · · · · · · · · · ·		<del>                                     </del>			1
						<del>                                     </del>	<del> </del>
			<del>-  </del>				<del> </del>
		<del></del>					<del> </del>
	ļ			<u> </u>		<del>  -</del>	<del> </del>
							<u> </u>
		REGULATORY OR E	NFORCEMENT AC	TIONS			
NONE YES (aumm	erize in this space)						
•							

PAGE 10 OF 10

EPA Form T2070-3 (10-79)

LAW OFFICES

Poliakoff and Associates, P.A. 215 Magnolia Street Spartanburg, South Carolina 29306

MAILING ADDRESS

PO. BOX 1571

SPARTANBURG, SOUTH CAROLINA 29304

TELEPHONE: (864) 582-5472 (864) 582-8(0)

FACSHILE: (864) 582-7280

BERNARD B. POLIAKOFF NNING POLIAKOFF MATTHEW POLIAKOFF

September 15, 2000

Mr Chuck Aschwanden General Coursel National Enforcement Investigations Center United States Environmental Protection Agency Post Office Box 25227 Building 53 Denver Federal Center Denver, CO 80225

> RE: Project No.: R55, VP 0300

> > Contamination of Westgate Trailer Park & King Acres Subdivision, Greer, South Carolina/Exide Corporation

Dear Mr. Aschwanden.

GARY W. POLIAKOFF AttvPoliko@aol.com

RMullmanir@aoi.com

RAYMOND P MULLMAN, JR

As indicated in our previous correspondence, of October and December 1999 and March 2000, we are inquiring as to the status of the final report which was drafted over two and a half years ago

Please find enclosed a copy of a letter from Mr. Mike Norman of the EPA Region IV dated March 27, 2000 which indicates that the NEIC advised the final report would probably be complete. within three months. We were advised via telephone on June 30, 2000 that the report would be complete in approximately 30 days. We would greatly appreciate you providing us with the status of the final report at your earliest convenience, or forwarding the final report to our office in the instance it has been completed

## Page Two RE R55, VP 0300

Thank you for your assistance and please feel free to contact our office if you have any questions.

With best regards I am,

Yours very truly,

Prymerch P. Hullryan, 91. 166 RAYMOND P. MULLMAN, JR. Attorney at Law

RPM cb Enclosures

cc Mr. Mike Norman, US EPA, Region IV

Mr. Steve Machemer, Project Leader, NEIC

Mr Ralph Howard, US EPA, Region IV



## UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

AEGION 4
ATLANTA FEDERAL CENTER
61 FORSYTH STREET
ATLANTA, GEORGIA 30303-8960

March 27, 2000

4WD-NSMB

Mr. Gary W. Poliakoff Poliakoff and Associates, P.A. 215 Magnolia Street P.O. Box 1571 Spartanburg, South Carolina 29304

Subi:

Exide Corporation - Exide Battery, Greer, South Carolina

National Enforcement Investigations Center (NEIC) Report

Dear Mr. Poliakoff:

EPA received your letter dated March 7, 2000, concerning the Exide Battery Site in Greer. South Carolina. The following information should help clarify the status of the NEIC report and its role in EPA's actions at this site.

The study conducted by NEIC was undertaken at the request of EPA Region 4's Air and Superfund programs in order to support EPA and/or State enforcement actions if needed, and to support EPA's cost recovery position for the 1994 Removal Action conducted in the trailer park. NEIC notified Region 4 by memorandum in April 1997 that it would undertake the study. Written summary updates were provided by NEIC in May 1998 and January of 1999. Since that time, EPA has reached a settlement with Exide Corporation regarding EPA's past response costs at the site, and the settlement is currently open for public comment. Because the study has fulfilled its intended purpose, once the settlement was reached, we advised NEIC that Region 4 no longer had need for a completed project. NEIC has indicated their desire to complete the project under its own funding. EPA expects to receive a copy of NEIC's final report when it becomes available. NEIC has advised us that they expect to complete their final report within the next three months.

We hope this information is useful to you. If you have any questions on this matter, please call me (404/562-8792) or Ralph Howard of my staff (404/562-8829), at any time.

Mike Norman, Chief

South Carolina Remedial Section

cc: Reuben Bussey, EPA
Ralph Howard, EPA
Steve Machemer, NEIC/Denver